

# Parts Manual

## Home Standby Generator Set

GNAA (Spec A–D)

GNAB (Spec A–D)

GNAC (Spec A–D)



## Introduction

This manual applies to the standard Home Standby Generator Sets as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table						
Model Name	Watts	Volts	Hertz	Wire	Phase	Battery Voltage
5.5 GNAA/*	5500	Reconnectible	50	4/12	1/3	12V
7.0 GNAA/*	7000	Reconnectible	60	4/12	1/3	12V
9.0 GNAB/*	9000	Reconnectible	50	4/12	1/3	12V
11.5 GNAB/*	11500	Reconnectible	60	4/12	1/3	12V
12.5 GNAC/*	12500	Reconnectible	50	4/12	1/3	12V
16.0 GNAC/*	16000	Reconnectible	60	4/12	1/3	12V

Note – The diagonal line (/) or dash (–) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

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## Abbreviations

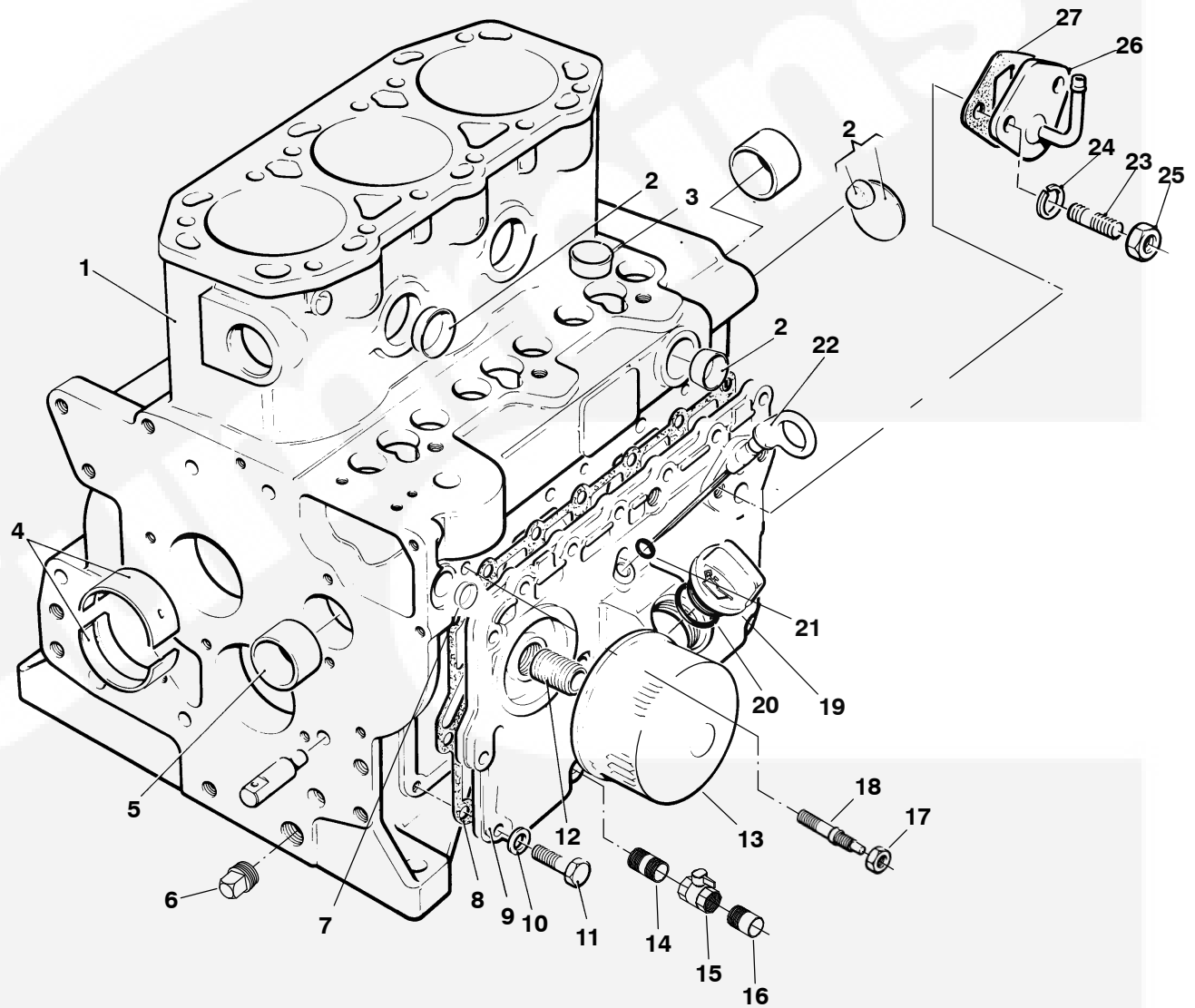
Some of the following abbreviations may be used throughout the Parts Catalog.

AC	Alternating Current	MOH	Mobile Off Highway
Amp	Ampere	NFS	Not For Sale
A/R	As Required	NPT	National Pipe Thread
AVR	Automatic Voltage Regulator	OD	Outside Diameter
AWG	Amerian Wire Gauge	oz.	Ounce
DC	Direct Current	PC	Printed Circuit
Deg	Degree	Ph	Phase
EFC	Electronic Fuel Control	PMG	Permanent Magnet Generator
EIT	External/Internal Tooth	PT/CT	Potential Transformer/Current Transformer
EPROM	Erasable Programmable Read Only Memory	RFI	Radio Frequency Interference
ET	External Tooth	RT	Right
GFI	Ground Fault Interrupter	Spec	Specification
ID	Inside Diameter	Thk	Thick
IEC	Internal Electrotechnical Commission	UL	Underwriters Laboratories, Inc.
IT	Internal Tooth	UNC	Union National Coarse
kW	Kilowatt	UNF	Union National Fine
LPG	Liquid Petroleum Gas	VAC	Volts Alternating Current
LT	Left	VDC	Volts Direct Current
M (meter number)	Meter	W/(ET, IT, EIT)	With
mm	Millimeter		

## Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)
	525-0305	–	12 oz. Pressurized Spray Can
	525-0306	–	Quart Can
	525-0304	–	Gallon Can
	518-0601	–	Sealant, Thread (6 ml Tube)

# Cylinder Block



## Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement Spec A	10			Washer (M6)
	100-3479-02	1	GNAA		186-6015	11	GNAA
	100-3480-02	1	GNAB		186-6015	15	GNAB
	100-3481-02	1	GNAC		186-6015	19	GNAC
			Begin Spec B	11			Bolt, (M6 x 1 x 25mm)
			GNAA		186-6014	9	GNAA
			GNAB		186-6014	12	GNAB
	100-3584-02		Natural Gas		186-6014	15	GNAC
	100-3584-04		Propane	12	186-6021	1	Adapter, Oil Filter
			GNAB	13	186-6025	1	Filter, Oil
	100-3585-02		Natural Gas	14	186-6614	1	Nipple, Pipe (1/2" x 1-3/4")
	100-3585-04		Propane	15	186-6613	1	Valve, Ball (1/2")
			GNAC	16	186-6629	1	Nipple (1/2")
	100-3586-02		Natural Gas	17			Nut (M6 x 1)
	100-3586-04		Propane		186-6209	2	GNAA
1			Block Assy, Cylinder (Includes Parts Marked *)		186-6209	3	GNAB
	186-6988	1	GNAA		186-6209	4	GNAC
	186-7011	1	GNAB	18			Stud
	186-7012	1	GNAC		186-6250	2	GNAA
2	186-65026002	1	*Kit, Expansion Plug		186-6250	3	GNAB
3			*Plug		186-6250	4	GNAC
	186-6991	2	GNAA	19	186-6023	1	Cap, Oil Fill
	186-6991	3	GNAB	20	186-6024	1	O'Ring
	186-6991	4	GNAC	21	186-6029	1	O'Ring
4			*Bearing, Gear End Main	22			Dipstick, Oil (Includes O'Ring)
	186-6003	1	Standard		186-6026	1	GNAA
	186-6004	1	0.25mm Undersize		186-6410	1	GNAB, GNAC
	186-6005	1	0.50mm Undersize	23	186-6796	2	Stud (M8 x 35mm)
5	186-6006	1	*Bearing, Gear End Camshaft	24	186-6529	2	Washer, Spring (M8)
6	186-6007	1	*Plug, 3/8"	25	186-6274	2	Nut, Hex (M8 x 1.25)
7	186-6995	1	*Plug	26	186-7051	1	Bracket, Breather Drain Hose
8			Gasket, Side Cover	27	186-6017	1	Gasket
	186-6010	1	GNAA				
	186-6405	1	GNAB				
	186-6012	1	GNAC				
9			Cover, Side (Includes Bearing)				
	186-6401	1	GNAA				
	186-6402	1	GNAB				
	186-6403	1	GNAC				
	186-6725	1	DNAF				

\* - Parts Included in Cylinder Block Assy.

This diagram illustrates the assembly of a 3/4 cylinder manual/remote control. The main assembly is shown in the center, with various components labeled with numbers 1 through 21. The assembly includes a control valve (1), a solenoid (2), a solenoid bracket (3), a solenoid bracket pin (4), a solenoid bracket pin (5), a solenoid bracket pin (6), a solenoid bracket pin (7), a solenoid bracket pin (8), a solenoid bracket pin (9), a solenoid bracket pin (10), a solenoid bracket pin (11), a solenoid bracket pin (12), a solenoid bracket pin (13), a solenoid bracket pin (14), a solenoid bracket pin (15), a solenoid bracket pin (16), a solenoid bracket pin (17), a solenoid bracket pin (18), a solenoid bracket pin (19), a solenoid bracket pin (20), and a solenoid bracket pin (21). The diagram also shows the connection of the control valve to the solenoid and the solenoid to the solenoid bracket. The assembly is shown in an exploded view, with the main assembly in the center and the individual components shown around it. The diagram is labeled with the following specifications:

- Spec A/B, 2/3/4 Cylinder Manual/Remote Control
- Spec A/B, 3/4 Cylinder Manual/Remote Control W/gage
- Spec B - C, 3/4 Cylinder Detector Control
- Spec A, 3/4 Cylinder Detector Control
- Spec B - C, 2 Cylinder Detector Control, Spec D Without Detector

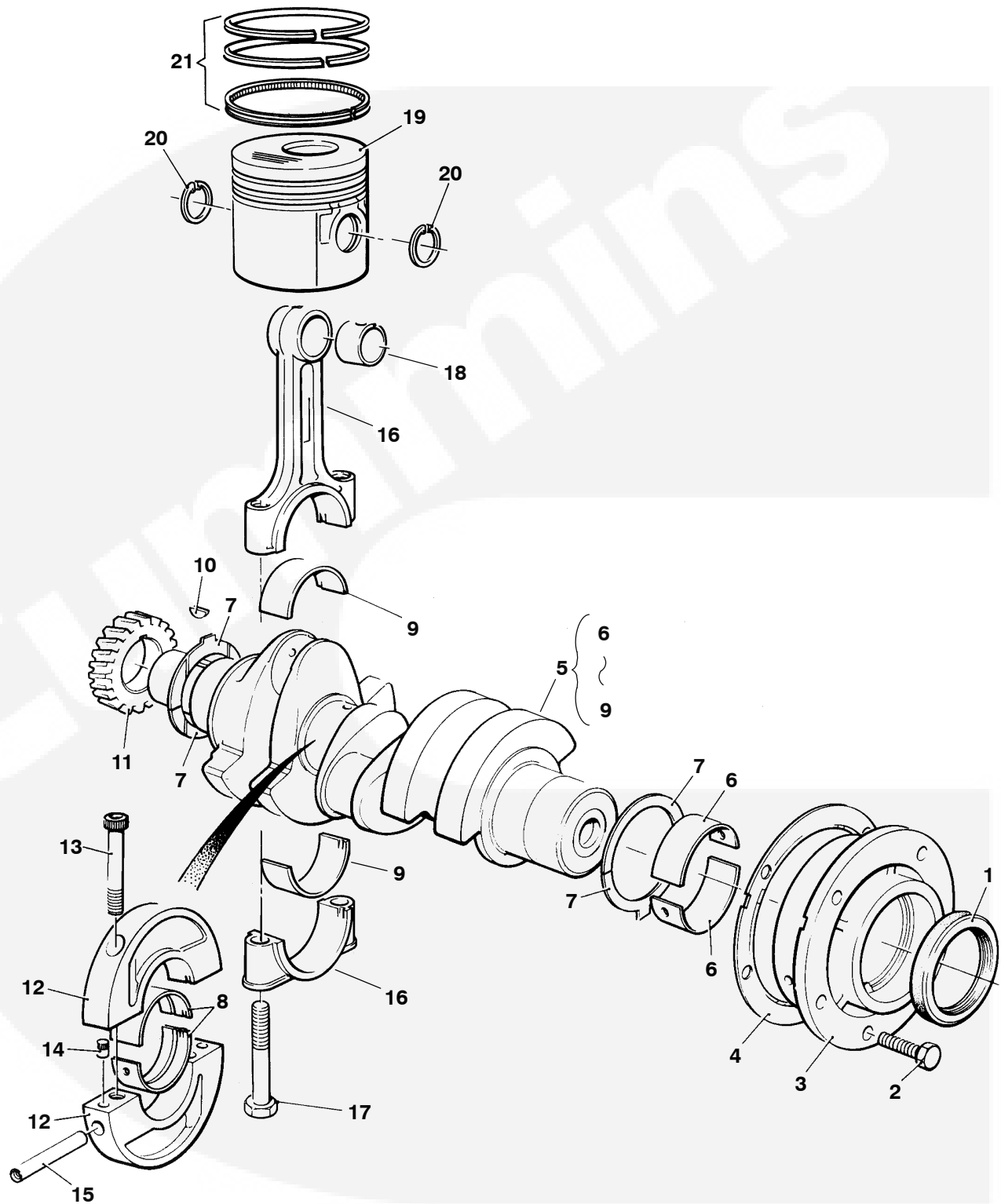


## Oil Pressure System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6580	1	Switch, Oil Pressure Shutoff (5psi)(Used with and w/o Display)	14	186-6806	1	°Block, Oil Distribution
				15	186-6808	2	°Spacer
				16	186-6526	2	°Screw, Hex Head Cap (M10 x 30mm)
2	193-0474	1	Kit, Oil Pressure Gauge (Includes Street Tee and Gauge) (GNAB)	17	186-6801	2	°Union
3	186-6253	1	Adapter, Oil Pressure Switch	18	186-6807	1	°Hose
4	186-6297	1	Tee, 1/8 NPT Street	19	186-6022	2	°Plug
5	193-0478	1	Kit, Oil Pressure Gauge (Includes Parts Marked +)	20	505-0057	1	Plug, 1/8 NPT
				21	800-2090	1	Screw, Hex Head Cap (M10 x 1.5 x 45mm)
6	186-7028	2	+Elbow (1/8 NPT) (GNAA)				
7	186-7039	1	+Tube, Copper (GNAA)				
8	186-6986	1	+Gauge, Oil Pressure				
9	186-7037	1	+Block, Oil Distribution (GNAA)				
10	186-7045	2	+Screw, Hex Head Cap (GNAA) (M10 x 1.5 x 55mm)				
11	186-6968	1	Switch, Oil Pressure Warning (9 psi) (Used With Detector Control)				
12			Sender, Oil Pressure (With Display only)				
	193-0448	1	Spec A (Used with Detector)				
	193-0444	1	Begin Spec D(Not Used with Detector)				
13	186-6803	1	Block, Oil Distribution (Includes Parts Marked °) (Used With Detector Control)				

+ - Parts Included in Oil Pressure Gauge Kit.  
° - Parts Included in Oil Distribution Block Assy.

# Crankshaft

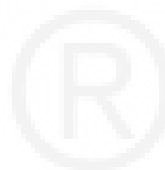


## Crankshaft

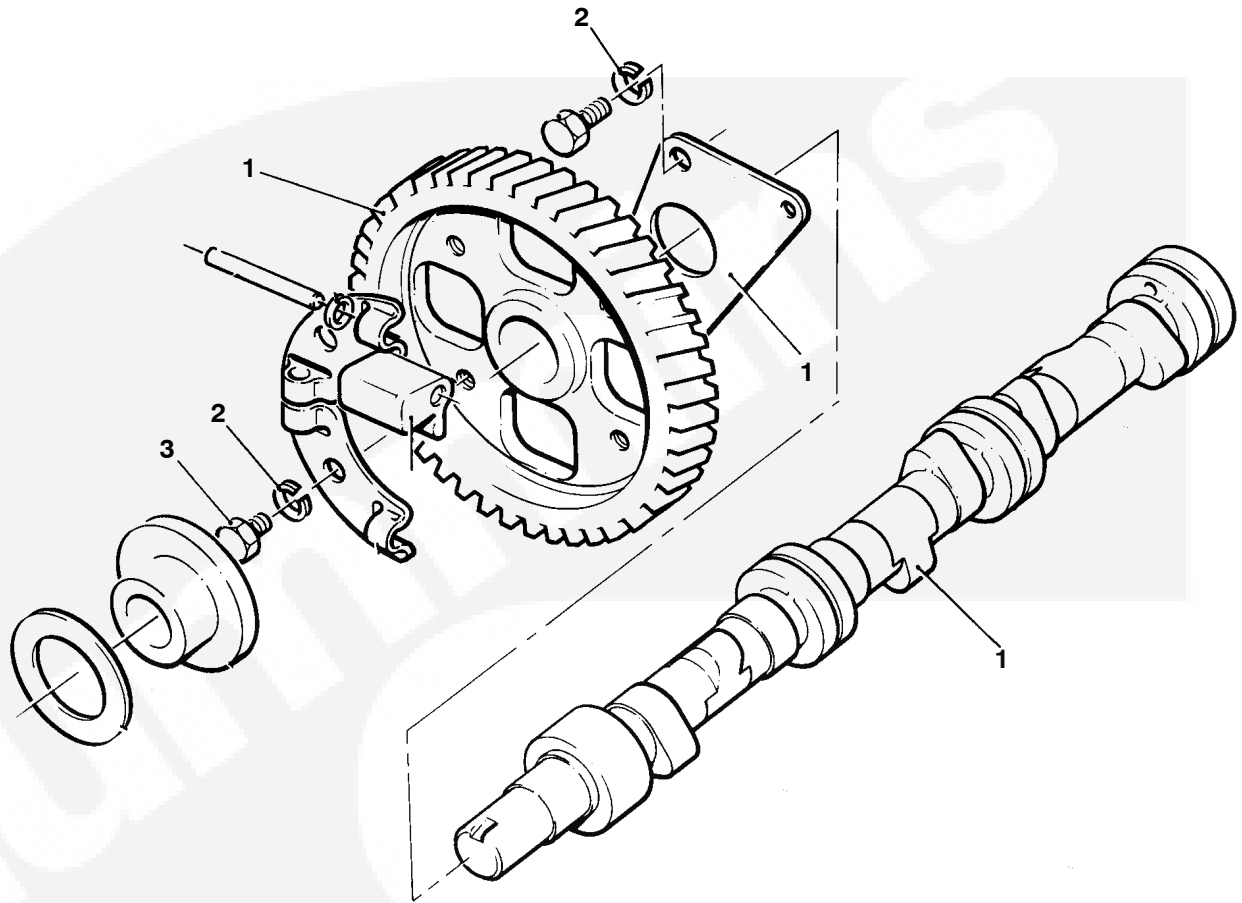
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6063	1	Seal, Oil	14			Dowel
2	186-6064	5	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	186-6049	2		GNAA
3	186-6058	1	Housing, Main Bearing	186-6049	4		GNAB
4			Shim	186-6049	6		GNAC
	186-6065	AR	.38mm	15	186-6057	1	Tube, Locating
	186-6066	AR	.50mm	186-6057	2		GNAA
5			Crankshaft Assy (Includes Parts Marked *)	186-6057	3		GNAB
	186-6046	1	GNAA	186-6057	3		GNAC
	186-6420	1	GNAB	16			Rod Assy, Connecting (Includes Rod, Bolt and Small Bearing)
	186-6047	1	GNAC	186-6078	2		GNAA
6			*Bearing Set, Flywheel End Main	186-6078	3		GNAB
	186-6060	1	Standard	186-6078	4		GNAC
	186-6061	1	0.25 mm Undersize	17	186-6079	4	Bolt, Connecting Rod
	186-6062	1	0.50 mm Undersize	186-6079	6		GNAA
7	186-6056	1	*Washer Set, Thrust	186-6079	8		GNAB
8			*Bearing, Center	186-6079	8		GNAC
			GNAA	18			Bearing, Small
	186-6051	1	Standard	186-6080	2		GNAA
	186-6052	1	.25mm	186-6080	3		GNAB
	186-6053	1	.50mm	186-6080	4		GNAC
			GNAB	19			+ Piston Assy (Includes Pin, Piston, Circlip and Ring Set)
	186-6051	2	Standard				Standard
	186-6052	2	.25mm	186-7025	2		GNAA
	186-6053	2	.50mm	186-7025	3		GNAB
			GNAC	186-7025	4		GNAC
	186-6051	3	Standard				.50mm Oversize
	186-6052	3	.25mm	186-7024	2		GNAA
	186-6053	3	.50mm	186-7024	3		GNAB
9			*Bearing, Large	186-7024	4		GNAC
			Standard	20			Circlip
	186-6081	2	GNAA	186-6072	4		GNAA
	186-6081	3	GNAB	186-6072	6		GNAB
	186-6081	4	GNAC	186-6072	8		GNAC
			.25mm Undersize	21			Ring Set, Piston
	186-6082	2	GNAA				Standard
	186-6082	3	GNAB	186-6073	2		GNAA
	186-6082	4	GNAC	186-6073	3		GNAB
			.50mm Undersize	186-6073	4		GNAC
	186-6083	2	GNAA				.50mm Oversize
	186-6083	3	GNAB	186-6075	2		GNAA
	186-6083	4	GNAC	186-6075	3		GNAB
10	186-6055	1	Key	186-6075	4		GNAC
11	186-6054	1	Pinion, Crankshaft				1.00mm Oversize
12			Housing, Center Bearing (Includes Cap Screw and Dowel)	186-6077	2		GNAA
	186-6048	1	GNAA	186-6077	3		GNAB
	186-6048	2	GNAB	186-6077	4		GNAC
	186-6048	3	GNAC				
13			Screw, Cap (M8 x 50mm)				
	186-6050	2	GNAA				
	186-6050	4	GNAB				
	186-6050	6	GNAC				

\* - Parts Included in Crankshaft Assy.

+ - Piston Pin Not For Sale Separately.

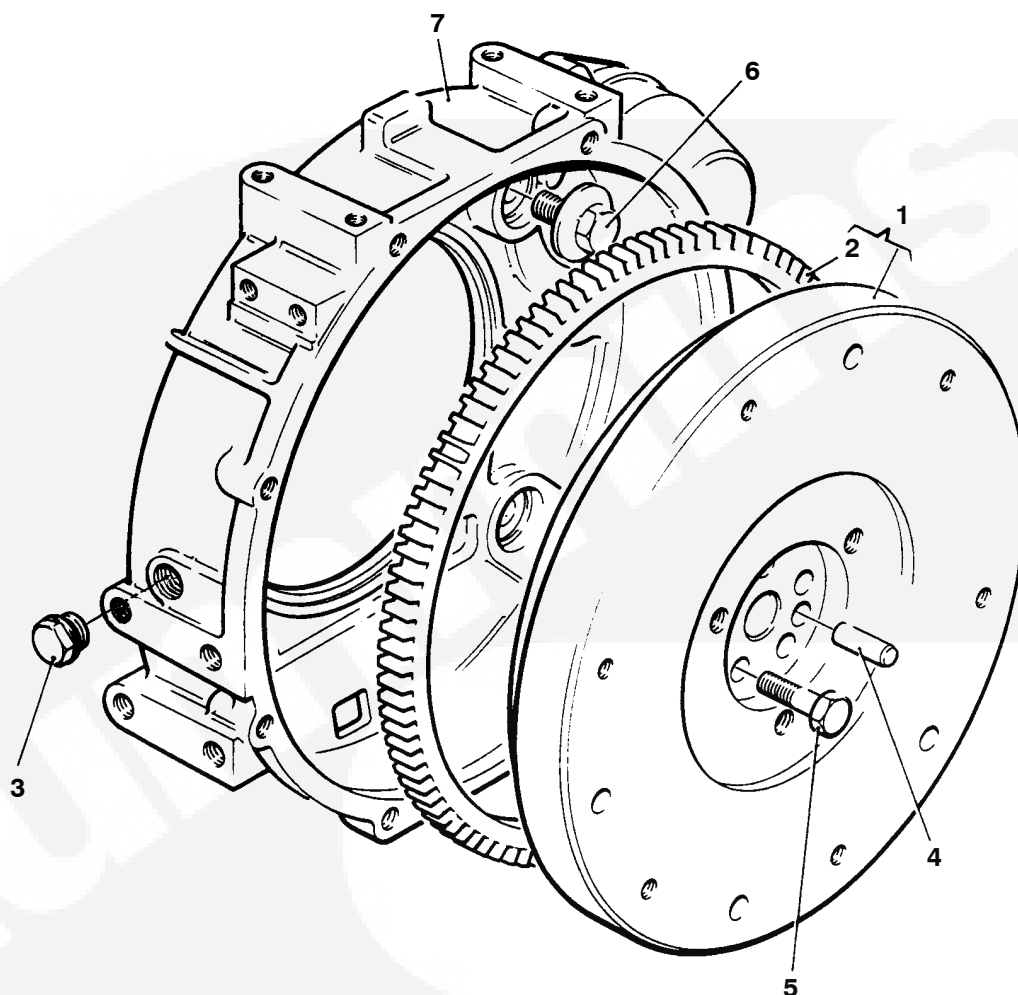


## Camshaft



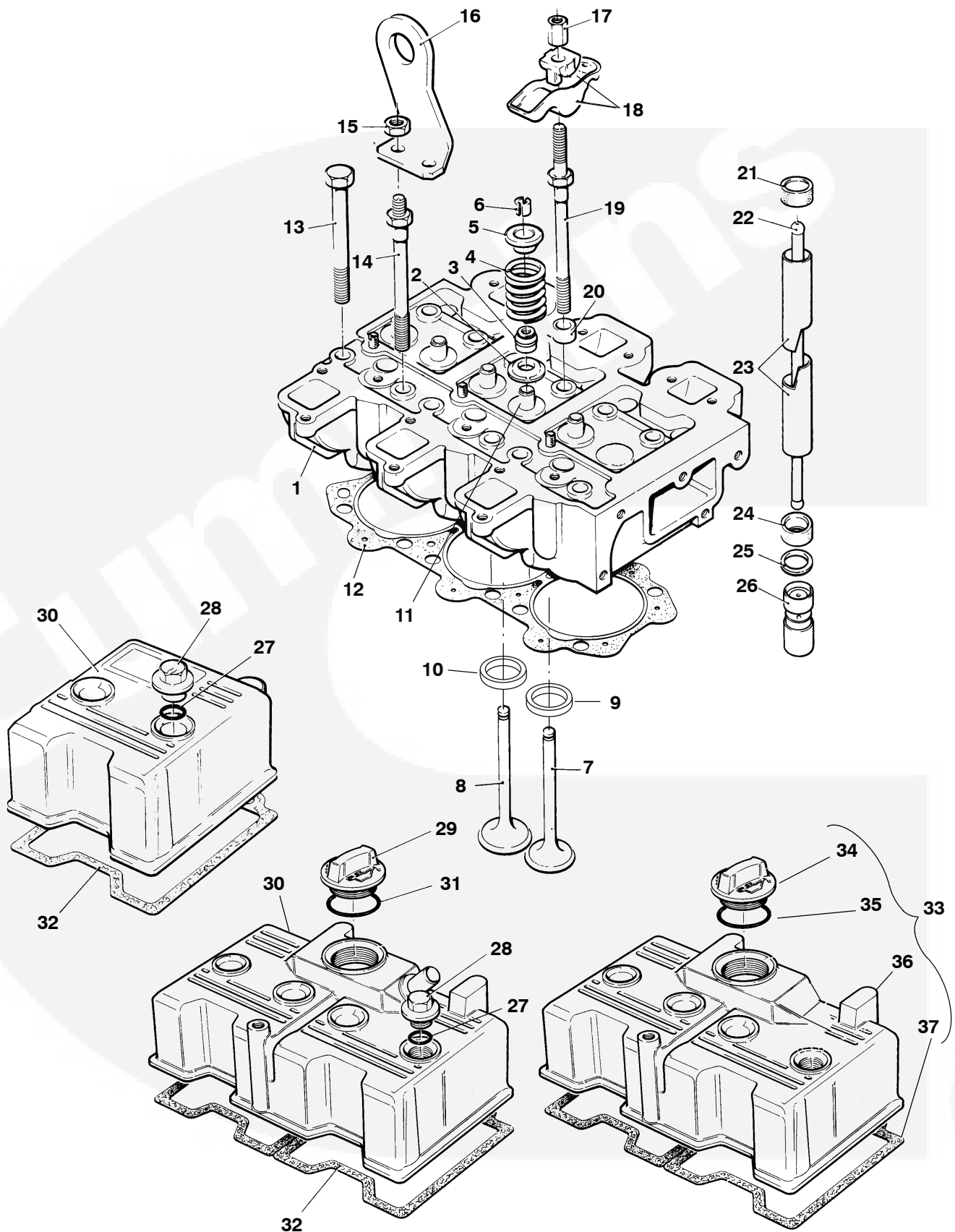
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Camshaft Assy (Includes	2	186-6038	62	Washer, Spring (M6)
			Gearwheel & Thrust Plate)	3	186-6037	42	Screw, Set (M6 x 12mm)
	186-6035	1	GNAA				
	186-6416	1	GNAB				
	186-6036	1	GNAC				

## Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7010	1	Flywheel (Includes Ring Gear)	6	186-6198	4	Screw, Self-Lock Set (M12 x 25mm)
2	186-6460	1	Gear, Ring	7	186-6466	1	Housing, Flywheel
3	186-6463	1	Plug, Banking				
4	186-6461	1	Dowel				
5	186-6462	5	Screw, Hex Head Cap (M10 x 35mm)				

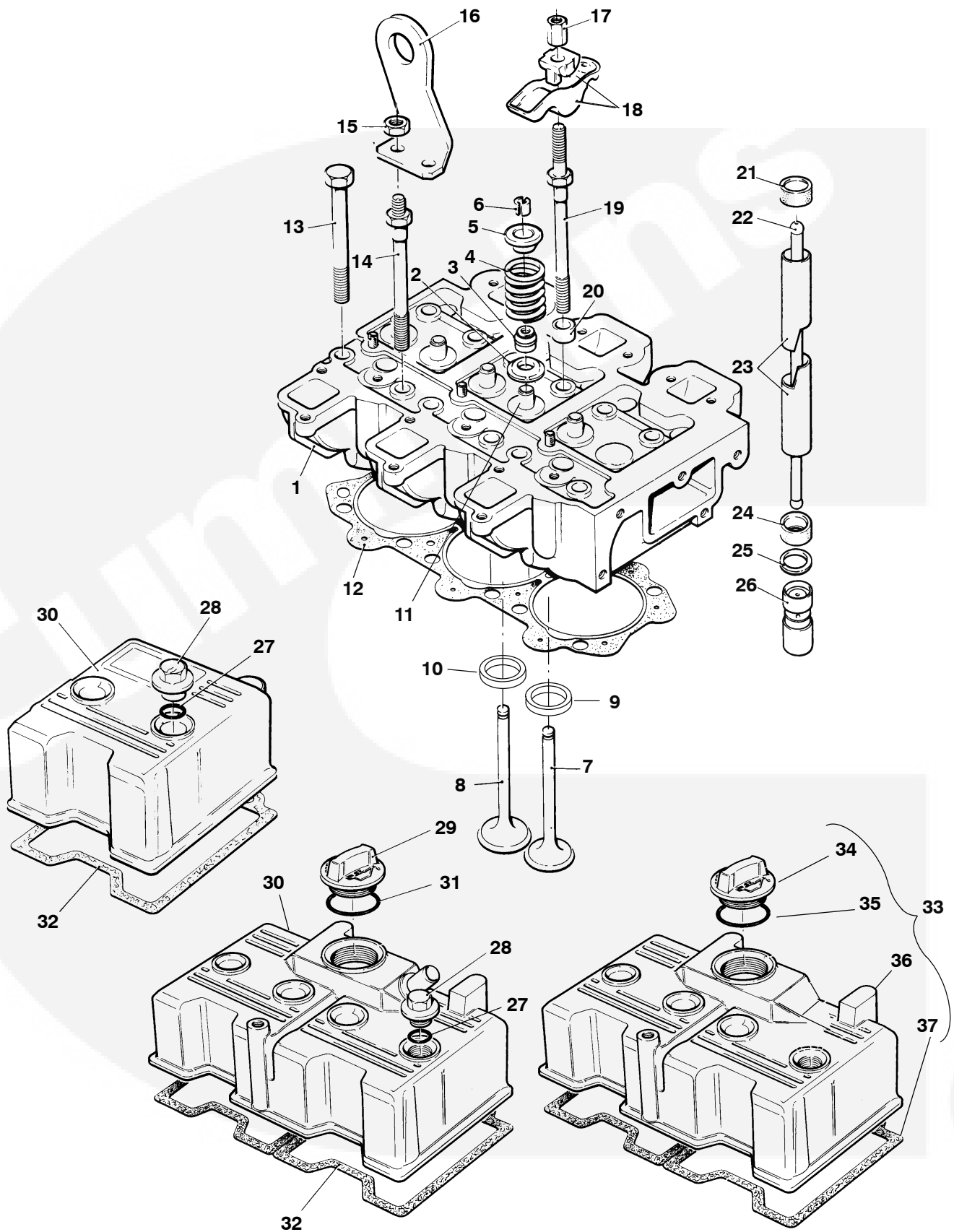
# Cylinder Head



## Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assy, Cylinder (Includes Parts Marked *)	17			Nut (M8)
	186-7013	1	GNAA		186-6095	4	GNAA
	186-7014	1	GNAB		186-6095	6	GNAB
	186-7015	1	GNAC		186-6095	8	GNAC
2			*Plate, Valve Spring	18			Lever, Rocker (Includes Pivot)
	186-6088	4	GNAA		186-6258	4	GNAA
	186-6088	6	GNAB		186-6094	6	GNAB
	186-6088	8	GNAC		186-6094	8	GNAC
3			*Seal, Valve Stem	19			Bolt (M10)
	186-6093	2	GNAA		186-6104	4	GNAA
	186-6093	3	GNAB		186-6104	6	GNAB
	186-6093	4	GNAC		186-6104	8	GNAC
4			*Spring, Valve	20			Spacer
	186-6089	4	GNAA		186-6107	4	GNAA
	186-6089	6	GNAB		186-6107	6	GNAB
	186-6089	8	GNAC		186-6107	8	GNAC
5			*Carrier, Valve Spring	21			Rubber, Head Sealing Tube
	186-6090	4	GNAA		186-6102	4	GNAA
	186-6090	6	GNAB		186-6102	6	GNAB
	186-6090	8	GNAC		186-6102	8	GNAC
6			*Cotter, Valve	22			Rod, Push
	186-6091	8	GNAA		186-6098	4	GNAA
	186-6091	12	GNAB		186-6098	6	GNAB
	186-6091	16	GNAC		186-6098	8	GNAC
7	186-6087		*Valve, Exhaust	23			Tube, Push Rod Sealing
8			*Valve, Inlet		186-6099	4	GNAA
	186-6758	2	GNAA		186-6099	6	GNAB
	186-6758	3	GNAB		186-6099	8	GNAC
	186-6758	4	GNAC	24			Rubber, Sealing Tube
9			*Insert, Exhaust Valve		186-6100	4	GNAA
	186-7005	2	GNAA		186-6100	6	GNAB
	186-7005	3	GNAB		186-6100	8	GNAC
	186-7005	4	GNAC	25			Washer
10			*Insert, Inlet Valve		186-6101	4	GNAA
	186-7004	2	GNAA		186-6101	6	GNAB
	186-7004	3	GNAB		186-6101	8	GNAC
	186-7004	4	GNAC	26			Tappet, Hydraulic
11			*Guide, Valve		186-6103	4	GNAA
	186-6092	4	GNAA		186-6103	6	GNAB
	186-6092	6	GNAB		186-6103	8	GNAC
	186-6092	8	GNAC	27			O'Ring
12			Gasket Set, Cylinder Head (Includes either 0.25, 0.38 or 0.51mm)		186-6028	4	GNAA
	186-6109	1	GNAA		186-6028	6	GNAB
	186-6436	1	GNAB		186-6028	8	GNAC
	186-6112	1	GNAC	28			Nut
13			Bolt (M10)		186-6118	4	GNAA
	186-6105	2	GNAA		186-6118	6	GNAB
	186-6105	4	GNAC		186-6118	8	GNAC
14			Bolt (M10)	29	186-6023	1	Cap, Oil Fill (DNAF)
	186-6518	2	GNAA, GNAB	30			Cover, Cylinder Head
	186-6106	2	GNAA, GNAB		186-6792	1	GNAA
	186-6106	4	GNAC		186-6792	1	GNAB
15	186-6020	2	Nut, Hex (M8 x 1.25)		186-6116	1	Single Cover
	186-6020	2	GNAA, GNAB		186-6792	1	Double Cover
	186-6020	4	GNAC				GNAC
16	186-6437	1	Eye, Lifting		186-6116	2	Single Cover
	186-6437	1	GNAA, GNAB		186-6792	1	Double Cover
	186-6437	2	GNAC				

# Cylinder Head

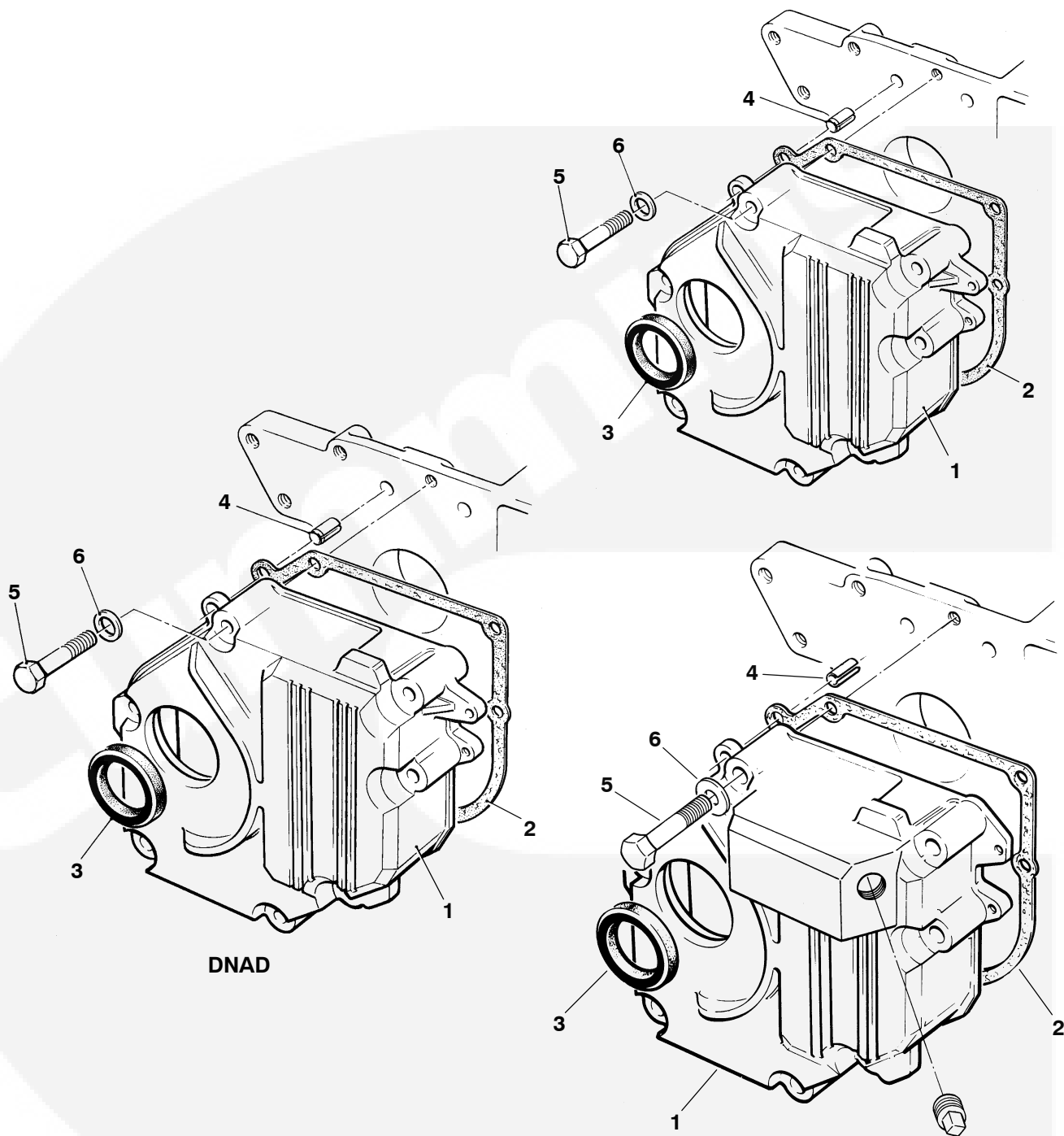




## Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
31	186-6024	1	O'Ring, Oil Fill Cap (DNAF)	34	186-6023	1	+ Cap, Oil Fill
32			Gasket, Head Cover	35	186-6024	1	+ O'Ring
	186-6117	2	GNAA	36	186-6902	1	+ Cover, Cylinder Head
	186-6117	3	GNAB	37	186-6117	2	+ Gasket, Cover
	186-6117	4	GNAC				
33	123-2126	1	Kit, High Oil Fill (Includes Parts Marked +)				

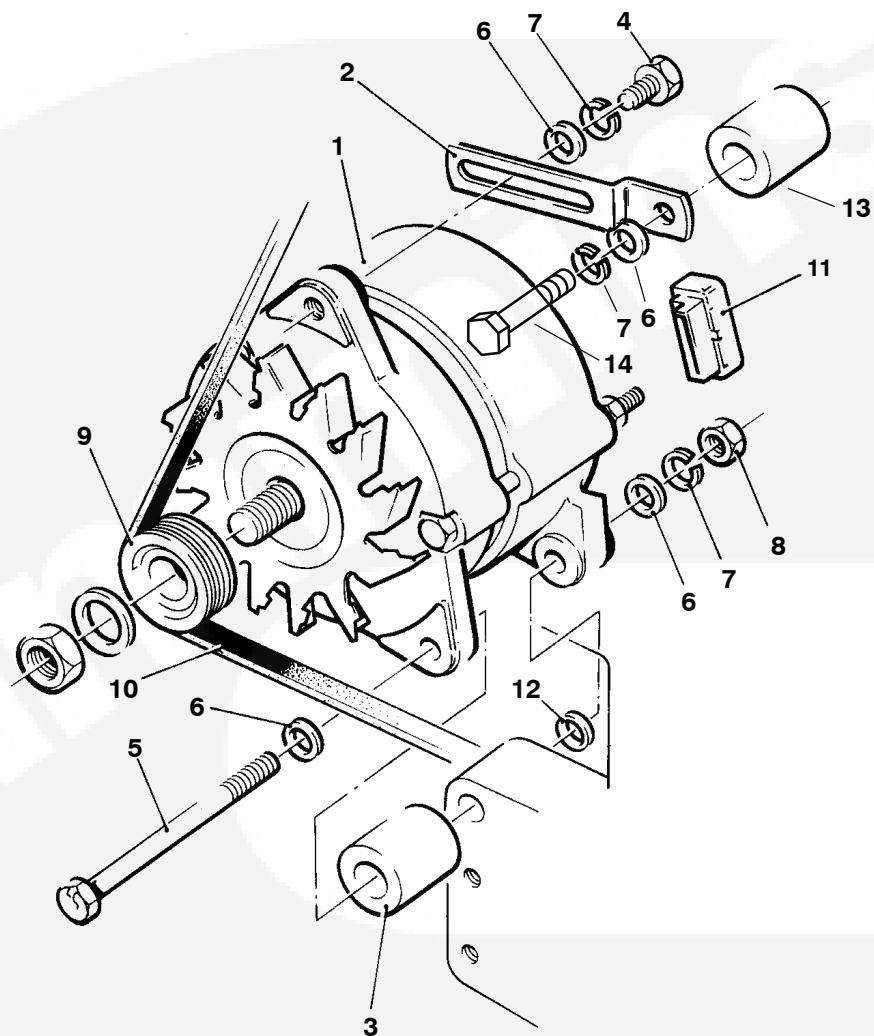
## Gear End Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6438	1	Cover, Gear End
2	186-6147	1	Gasket, Cover
3	186-6148	1	Seal, Rear Crank Oil
4	186-6149	2	Dowel

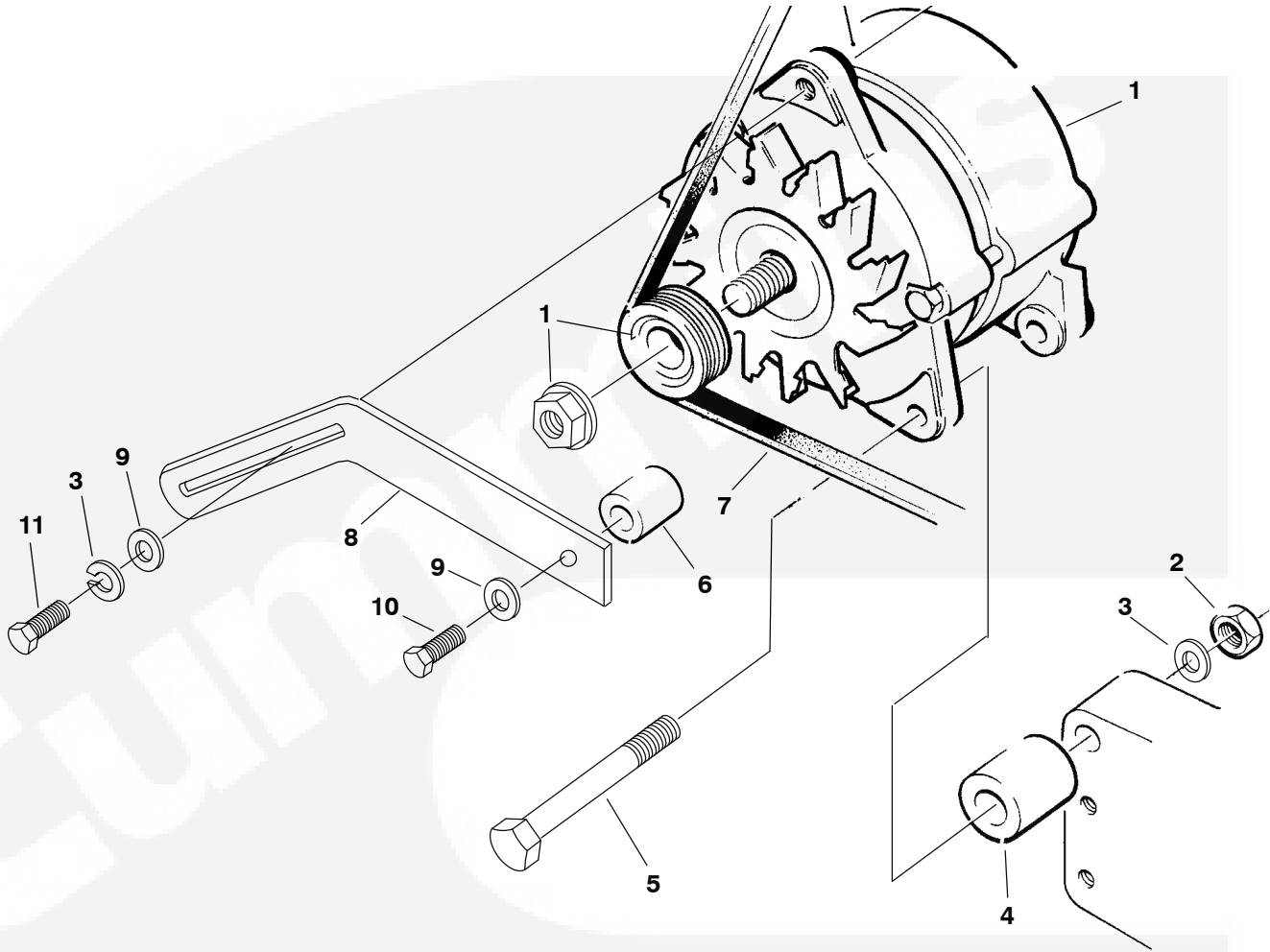
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	186-6150	7	Screw, Hex Head Cap (M6 x 1 x 50mm)
6	186-6015	7	Washer (M6)

## Alternator (Spec A)



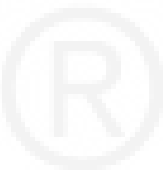
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6469	1	Alternator (12V, 45A) (Includes Nut and Washer for Mounting Pulley)	7	186-6019	3	Washer, Spring (M8)
2	186-6470	1	Bracket, Adjusting	8	186-6274	1	Nut, Hex (M8 x 1.25)
3	186-6471	1	Spacer	9	186-6558	1	Pulley
4	186-6472	1	Screw, Hex Head Cap (M8 x 20mm)	10	186-6811	1	Belt
5	186-6840	1	Bolt (M8 x 130mm)	11	186-6478	1	Plug, Connector
6	186-6412	4	Washer (M8)	12	186-6479	1	Spacer
				13	186-6480	1	Spacer
				14	186-6481	1	Screw, Hex Head Cap (M8 x 50mm)

## Alternator (Begin Spec B)

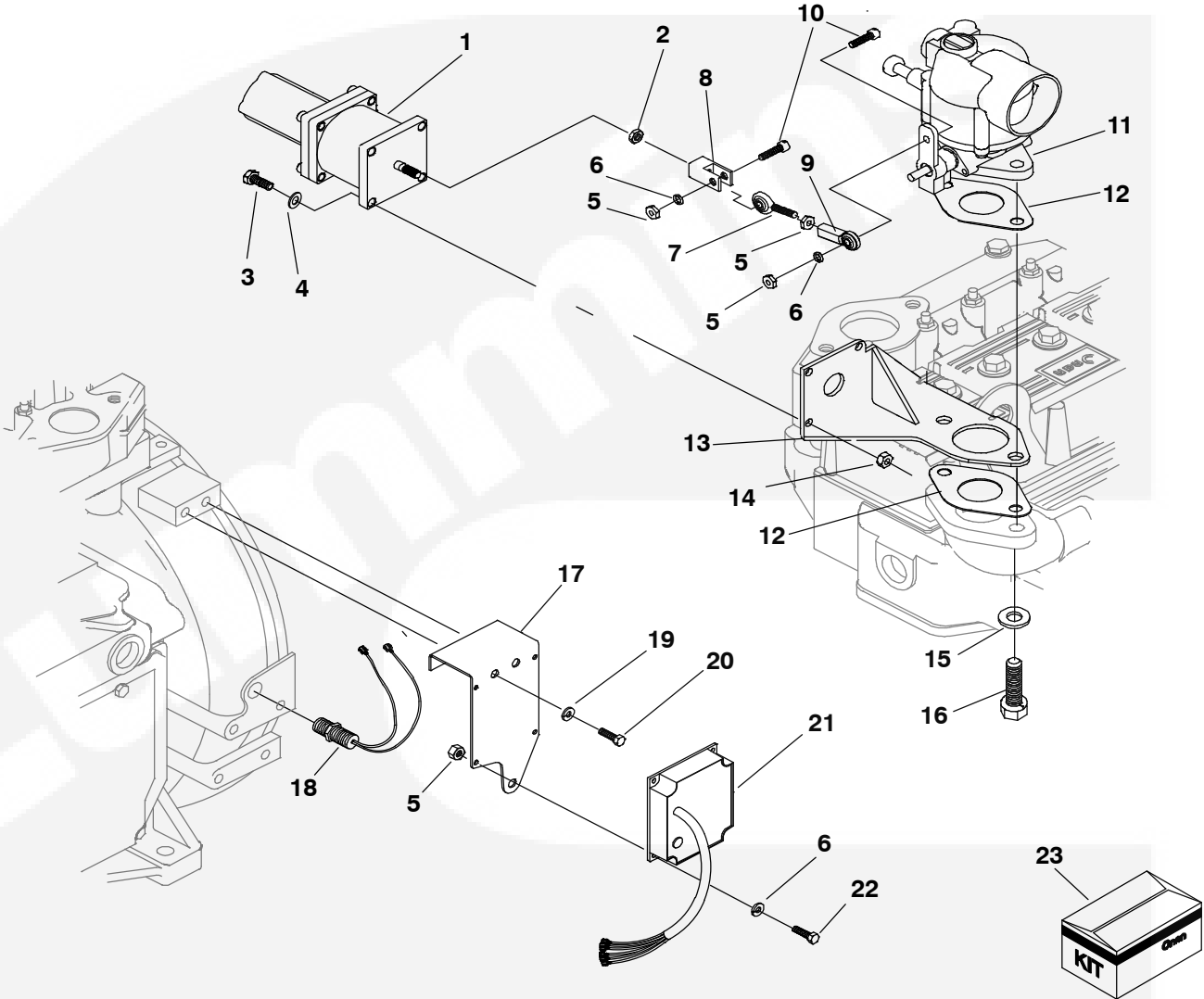


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7209	1	Alternator (Includes Nut and Pulley)	8	186-7212	1	Bracket, Adjusting
2	186-6274	1	Nut, Hex (M8 x 1.25)	9	186-6412	1	Washer (M8)
3	186-6529	3	Washer, Spring (M8)	10	186-7202	1	Bolt
4	186-7210	1	Pivot, Front Spacer		186-7203	1	M8 x 1.25 x 35mm
5	186-7201	1	Bolt (M8 x 100mm)			1	M8 x 1.25 x 30mm
6	186-7211	1	Spacer	11	186-6681	1	Screw, Hex Head Cap (M8 x 25mm)
7	186-6811	1	Belt				

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Electronic Governor

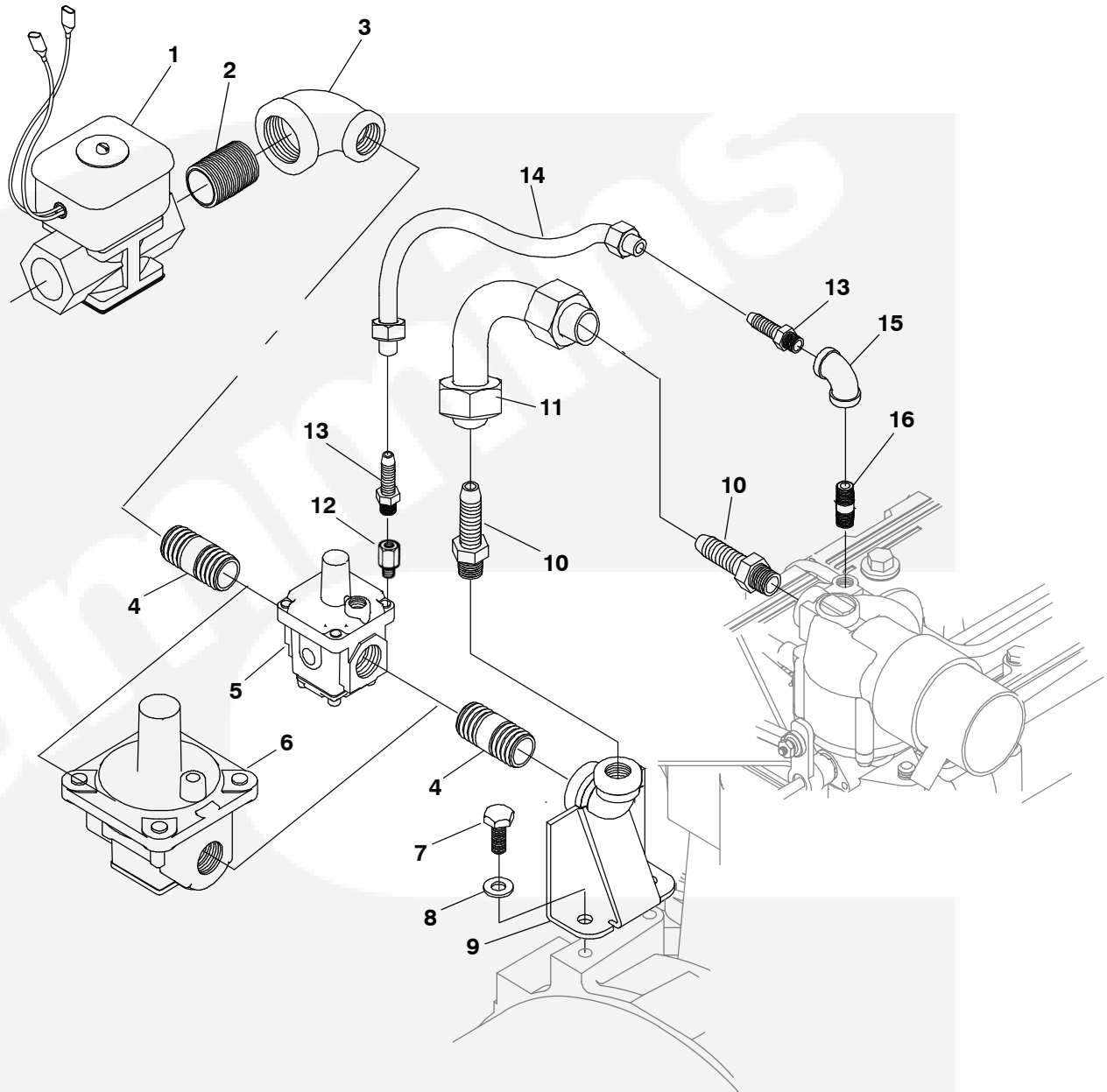


## Electronic Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6497	1	Actuator, Electronic Governor (Includes Nut))	12	186-6948	2	Gasket, Flange
2	-*	1	Nut (M6 x 1mm)	13	186-6942	1	Bracket, Governor Actuator
3	186-6034	4	Screw, Hex Head Cap (M6 1 x 20mm)	14	186-6209	4	Nut, Hex (M6 x 1)
4	186-6597	4	Washer, Lock (M6)	15	186-6849	2	Washer, Spring (3/8")
5	186-6474	7	Nut, Hex (#10-32)	16	186-6996	2	Screw, Hex Head Cap (3/8-16 x 1.25")
6	186-6458	6	Washer, Spring (3/16")	17	186-6964	1	Bracket, Governor Controller
7	186-6648	1	End, Male Rod (3/16")	18	186-6647	1	Pick-Up, Magnetic (5/8-18 x 3")
8	186-6923	1	Clevis	19	186-6618	2	Washer, Spring (M8)
9	186-6649	1	End, Female Rod (3/16")	20	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
10	186-6682	2	Screw, Fillister Head Machine (#10-32 x 3/4)	21	186-6650	1	Controller, Electronic Governor
11			Carburetor	22	186-6486	4	Screw, Hex Machine (#10-32 x 1/2")
			Spec A	23	186-7038	1	Kit, Carburetor Repair (Includes Air-Gas Valve Assy, Sealing Ring, Check Valve Plate, Throttle Body to Mixer Gasket, Screw (10-24 x 5/8") Idle Cutoff Piston, Idle Cutoff Spring, Instruction Sheet)
	186-6973	1	Propane				
	186-6947	1	Natural Gas				
			Begin Spec B				
			GNAA				
	186-7123	1	Natural Gas				
	186-7124	1	Propane				
			GNAB				
	186-7125	1	Natural Gas				
	186-7126	1	Propane				
			GNAC				
	186-7127	1	Natural Gas				
	186-7128	1	Propane				

\* - Not Sold Separately, Included with Actuator.

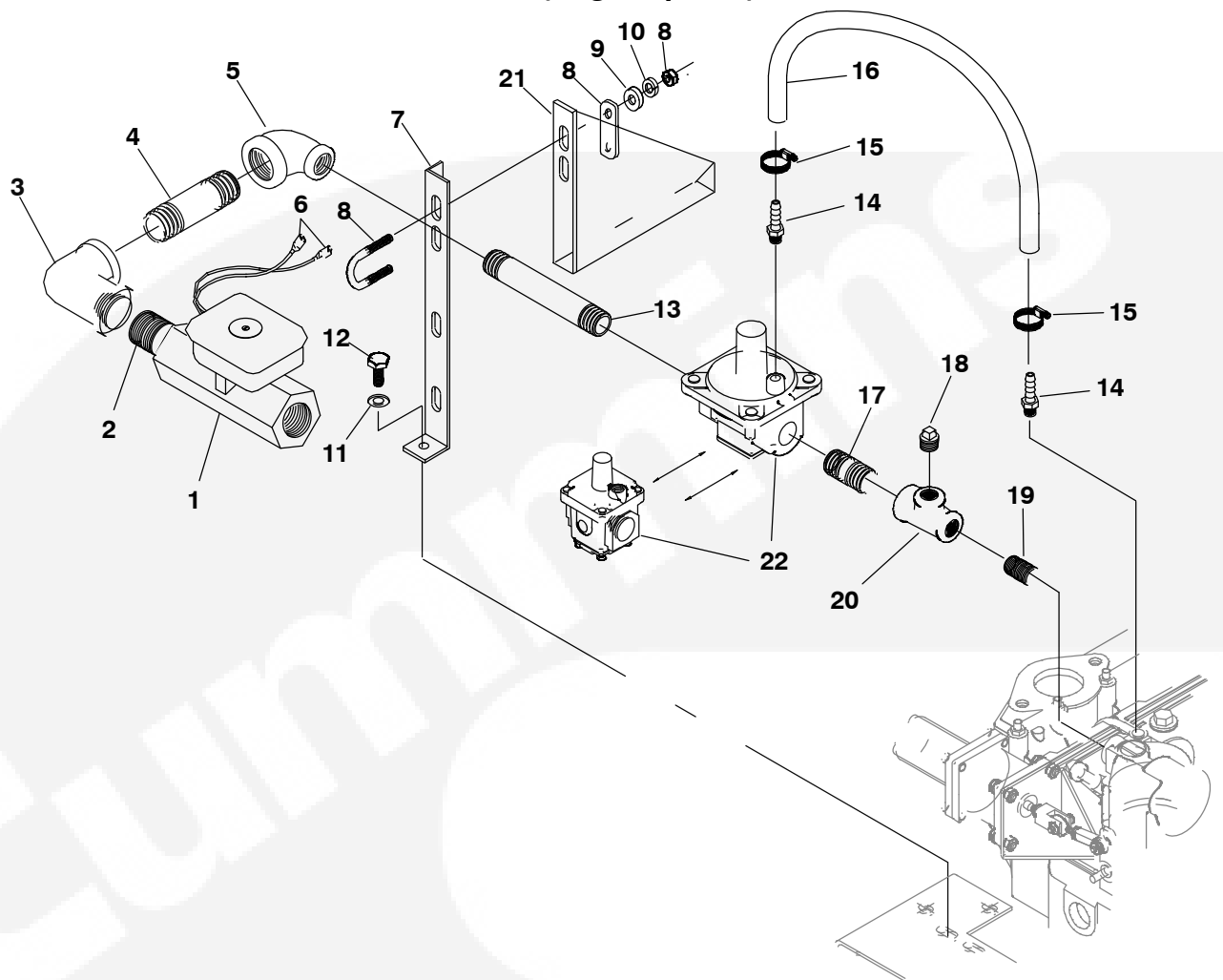
## Regulator (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-0312	1	Valve, Magnetic Gas	9	186-6945	1	Bracket, Gas Regulator Support
2	186-6938	1	Nipple, Close (3/4 NPT)	10	007077700	2	Adapter, Brass
3	186-6937	1	Elbow, Reducing	11	186-6949	1	Tube Assy, Fuel (5/8 x 9-3/4")
4	186-6614	2	Nipple, Pipe (1/2 NPT x 1.75" Lg)	12	186-6253	1	Adapter
5	186-6972	1	Regulator, Propane (C099)	13	186-6936	2	Adapter, Brass
6	186-6951	1	Regulator, Natural Gas (C002)	14	186-6950	1	Tube Assy, Balance (1/4" x 12-1/4")
7	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	15	186-6953	1	Elbow, 90° (1/8" NPT)
8	186-6618	2	Washer, Spring (M8)	16	186-6952	1	Nipple, Close (1/8" NPT x Close)

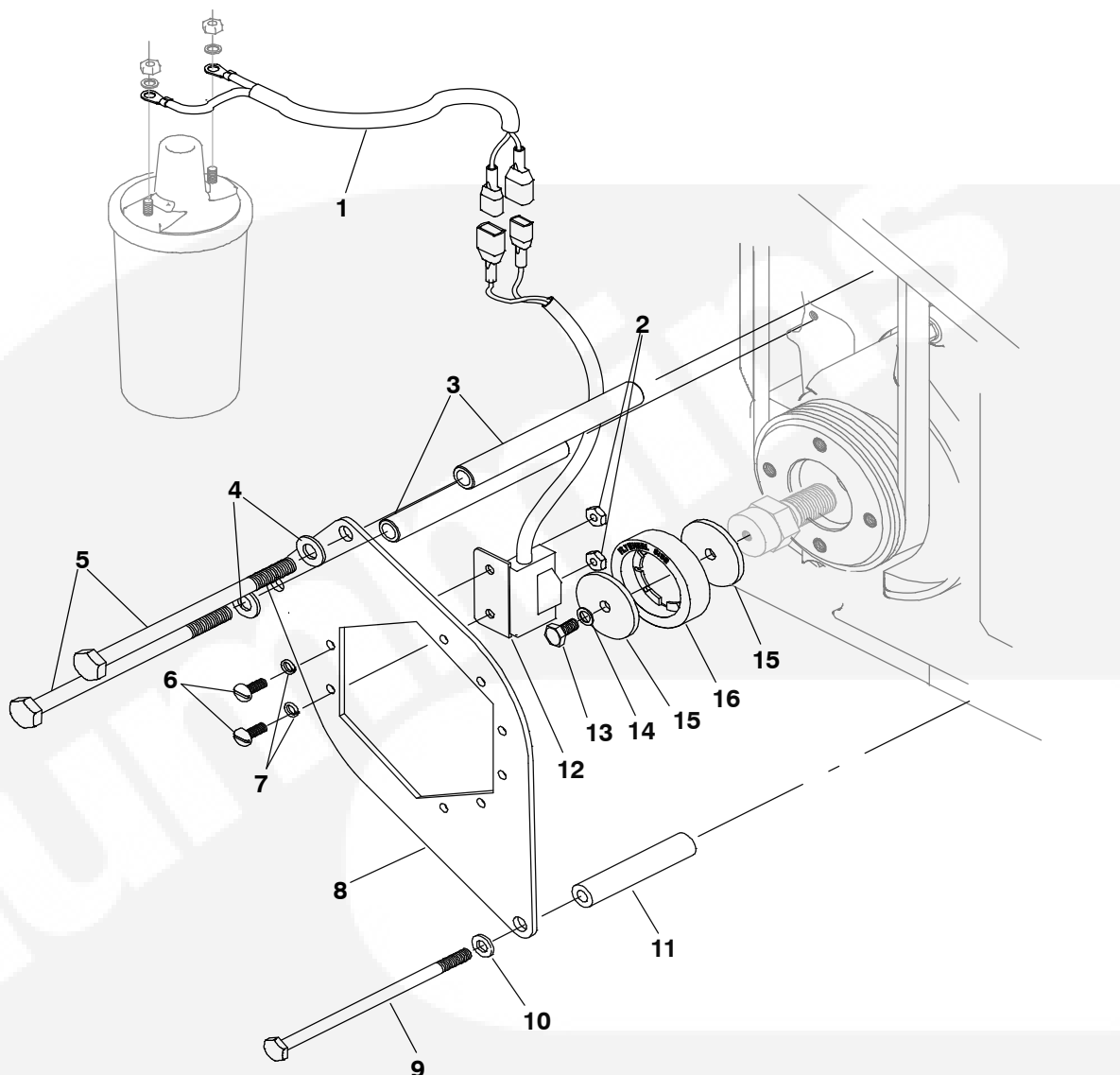


## Regulator (Begin Spec B)



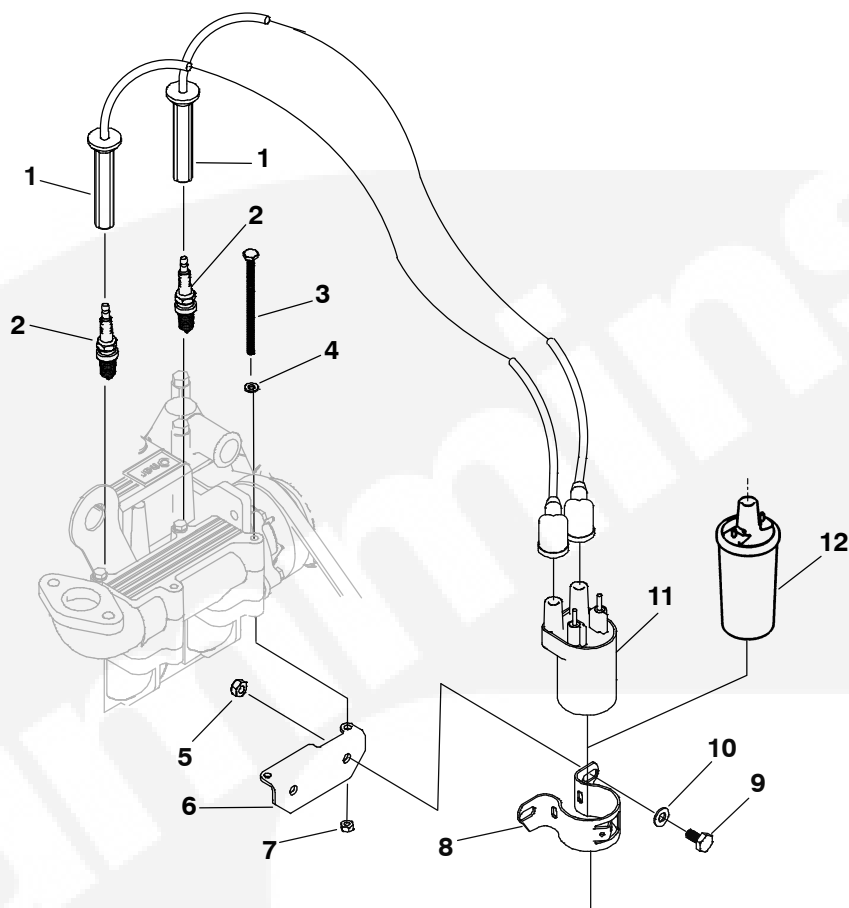
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-0312	1	Valve, Magnetic Gas	15	186-6536	4	Clamp, Hose (.25-.62" OD)
2	186-6938	1	Nipple, Close (3/4 NPT)	16	186-7070	1	Hose (1/4 ID x 8" Lg)
3	505-0132	1	Elbow, 90° (3/4 NPT)	17	505-0100	1	Nipple (1/2 NPT x Close)
4	505-0337	1	Nipple (3/4 x 4")	18	505-0110	1	Plug, Square Head (3/8 NPT)
5	186-6937	1	Coupling, 90° (3/4" NPT to 1/2 NPT)	19	505-0101	1	Nipple, Coupled (3/8 NPT Close)
6	186-7057	2	Terminal, Fully Insulated (1/4")	20	186-7066	1	Tee, Reducing (1/2 x 3/8 x 3/8")
7	186-7086	1	Brace, Fuel/Air Breather Support	21	148-1256	1	Bracket, Fuel System GNAA, GNAB
8	186-7059	1	Clamp, Pipe (1/2")		148-1257	1	GNAC
9	186-6933	4	Washer (1/4")	22			Regulator GNAA
10	186-6295	1	Washer, Spring (1/4")		186-7129	1	Natural Gas
11	186-6975	5	Washer, Flat (M8)		186-7130	2	Propane
12	800-2059	1	Screw, Hex Head Cap (M8 x 1.25 x 30mm)				GNAB
13			Nipple		186-7131	1	Natural Gas
	186-7069	1	1/2 NPT x 4-1/2" Lg		186-7132	1	Propane
	505-0081	1	1/2 NPT x 5-1/2 Lg				GNAC
14	186-7055	2	Barb, Hose (1/8 NPT to 1/4 Hose)		186-7133	1	Natural Gas
					186-7134	1	Propane

## Primary Ignition



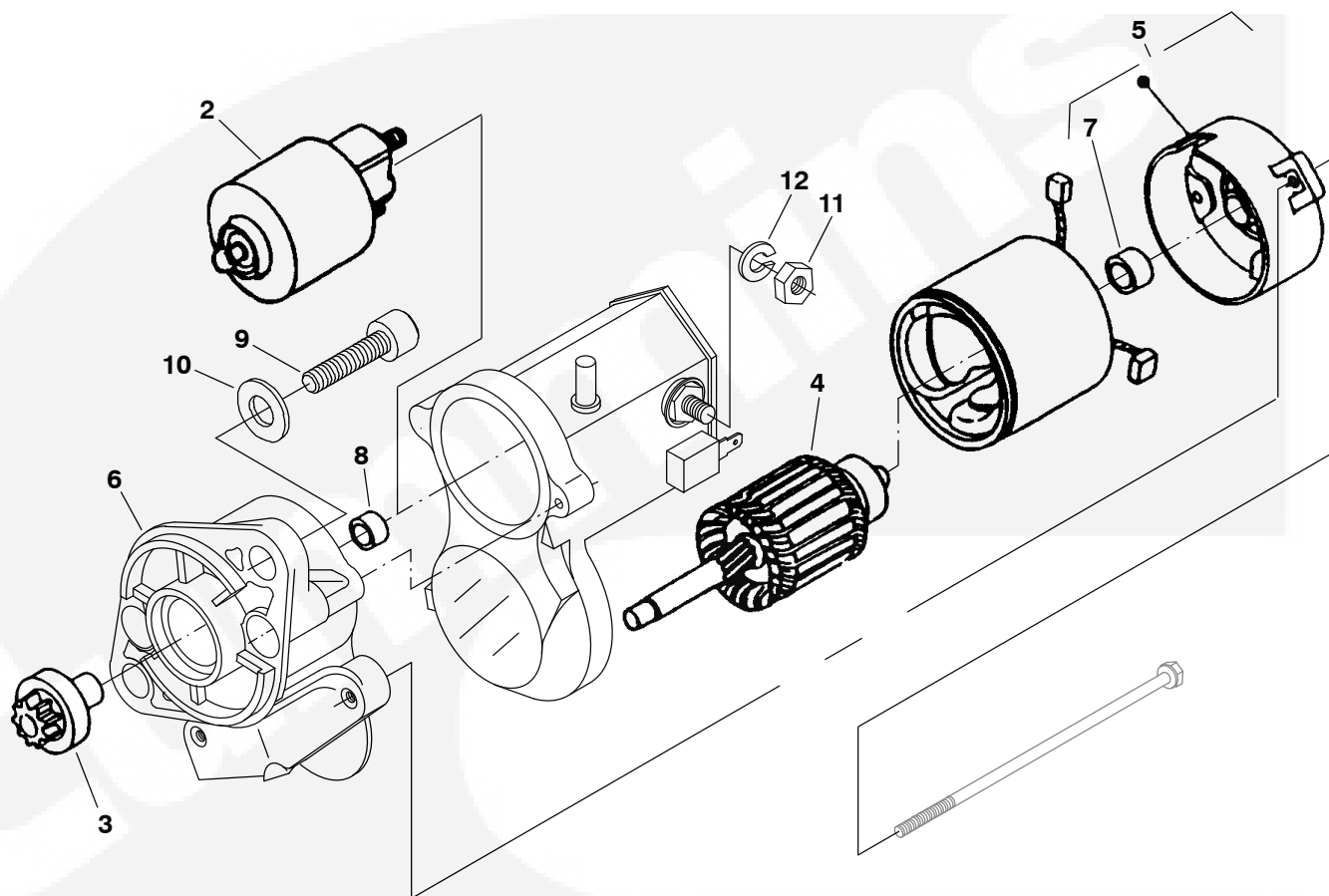
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6969	1	Harness, Ignition	7	186-6458	2	Washer, Spring (3/16")
	186-6970	1	GNAA		186-6458	6	GNAB
	186-6971	1	GNAC		186-6458	4	GNAC
2	186-6474	2	Nut, Hex (10-32)	8	186-6994	1	Plate, Ignition
	186-6474	6	GNAA	9	186-6998	1	Screw, Hex Head Cap (M6 x 1 x 125mm)
	186-6474	4	GNAB	10	186-6015	1	Washer
3	186-6992	2	Spacer	11	186-6993	1	Spacer
4	186-6567	2	Washer	12	166-0785	1	Control, Ignition
5	186-6983	2	Screw, Hex Head Cap (M8 x 1.25 x 130mm)		166-0785	3	GNAA
6			Screw, Fillister Head Machine (10-32 x 1/2")		166-0785	2	GNAB
	186-6486	2	GNAA	13	186-6546	1	GNAC
	186-6486	6	GNAB	14	186-6997	1	Screw, (M6 x 1 x 16mm)
	186-6486	4	GNAC	15	186-7006	2	Washer, Fan
				16	166-0767	1	Washer, Retaining Rotor, Ignition

## Secondary Ignition



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Lead, High Tension	7			Nut, Hex (M6 x 1mm)
	186-6962	2	GNAA (12")		186-6209	2	GNAA
	186-6961	3	GNAB (12")		186-6209	3	GNAB
			GNAC		186-6209	4	GNAC
	186-6962	2	12"	8			Bracket, Coil
	186-6963	2	18"		186-6957	1	GNAA
2			Plug, Spark		186-6957	3	GNAB
	186-6958	2	GNAA		186-6957	2	GNAC
	186-6958	3	GNAB	9			Screw, Hex Head Cap (M8 x 1.25 x 16mm)
	186-6958	4	GNAC		186-6668	2	GNAA
3			Screw, Hex Head Cap (M6 x 100mm)		186-6668	6	GNAB
	186-6946	2	GNAA		186-6668	4	GNAC
	186-6946	3	GNAB	10			Washer, Spring (M8)
	186-6946	4	GNAC		186-6618	2	GNAA
4			Washer, Lock (M6)		186-6618	6	GNAB
	186-6597	2	GNAA		186-6618	4	GNAC
	186-6597	3	GNAB	11			Coil, Ignition
	186-6597	4	GNAC		166-0820	1	GNAA
5			Nut, Hex (M8 x 1.25)		166-0820	2	GNAC
	186-6274	2	GNAA	12	186-6960	3	Coil, Ignition - GNAB
	186-6274	6	GNAB				
	186-6274	4	GNAC				
6			Bracket, Coil				
	186-6943	1	GNAA				
	186-6944	1	GNAB				
	186-6943	2	GNAC				

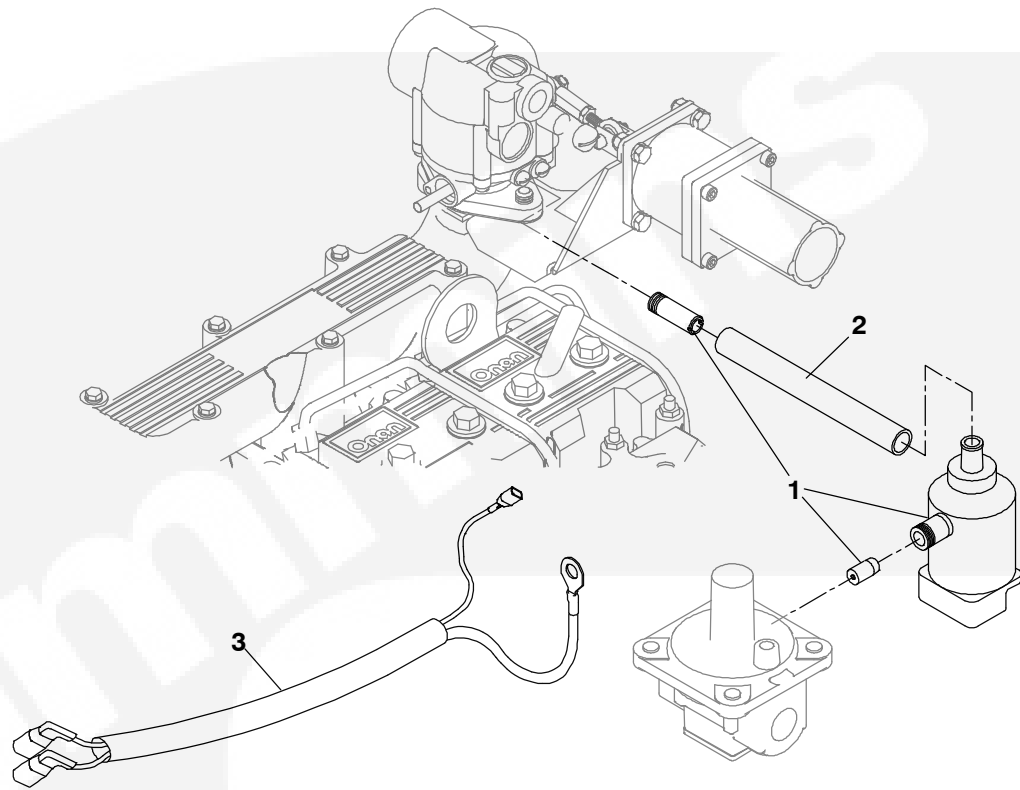
## Starter Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter (1.4kW)
1	191-2215	1	Kit, Starter Brush
2	191-2216	1	Switch
3	191-2217	1	Clutch
4	191-2218	1	Armature
5	191-2219	1	Frame, Commutator End
6	191-2220	1	Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	191-2221	1	Bearing, Commutator End
8	191-2222	1	Bearing, Pinion End
9	186-6675	2	Screw, Socket Head Cap (M10 x 1.5 x 35mm)
10	186-6619	2	Washer, Spring (M10)
11	186-6274	1	Nut, Hex (M8 x 1.25)
12	186-6618	1	Washer, Spring (M8)

## Starter Valve (Begin Spec D)

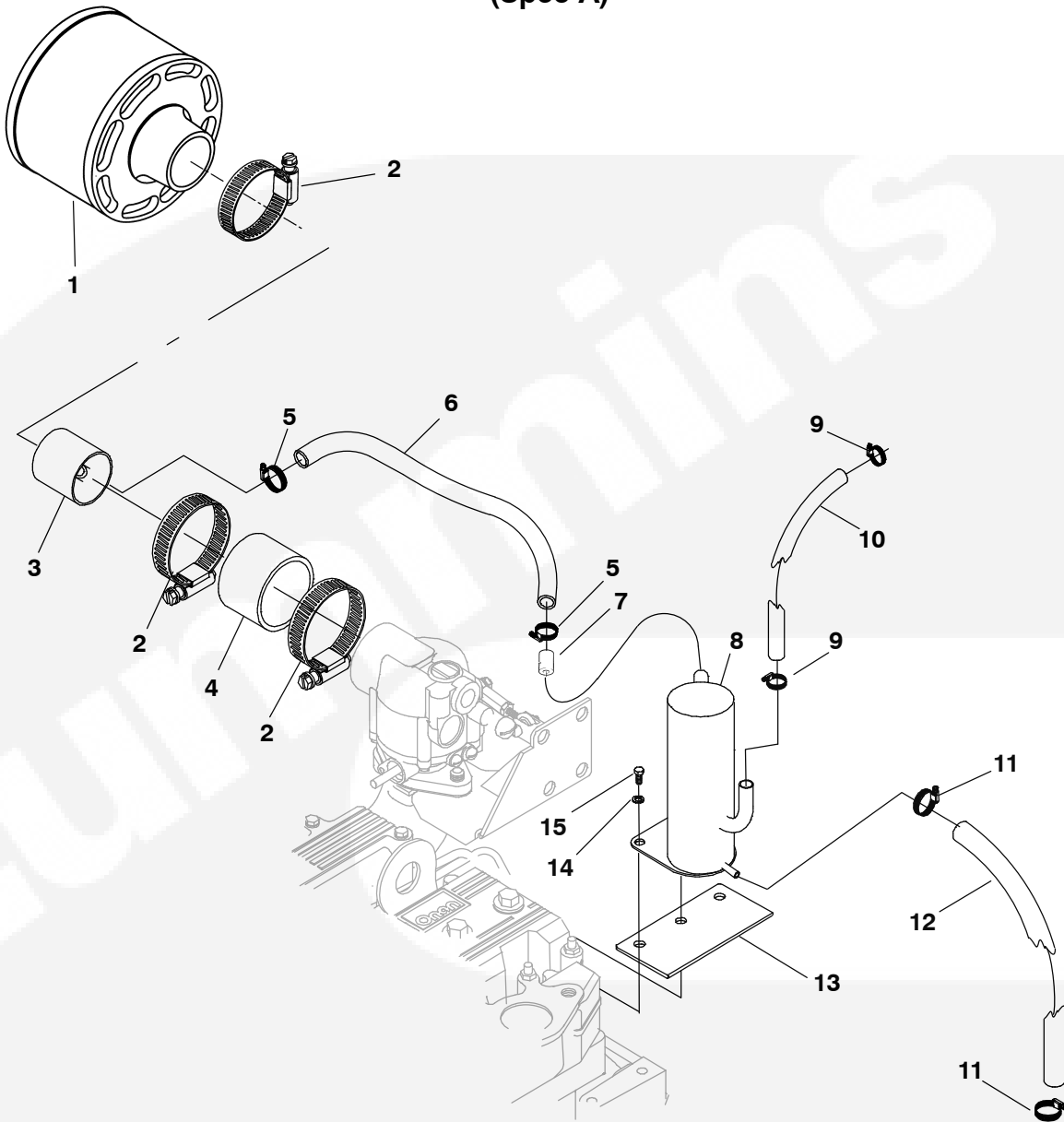


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0365	1	Kit, Starter Aid(Fittings Included)
2	184-0366	1	Hose, Vacuum
3	184-0367	1	Harness, Starter Aid

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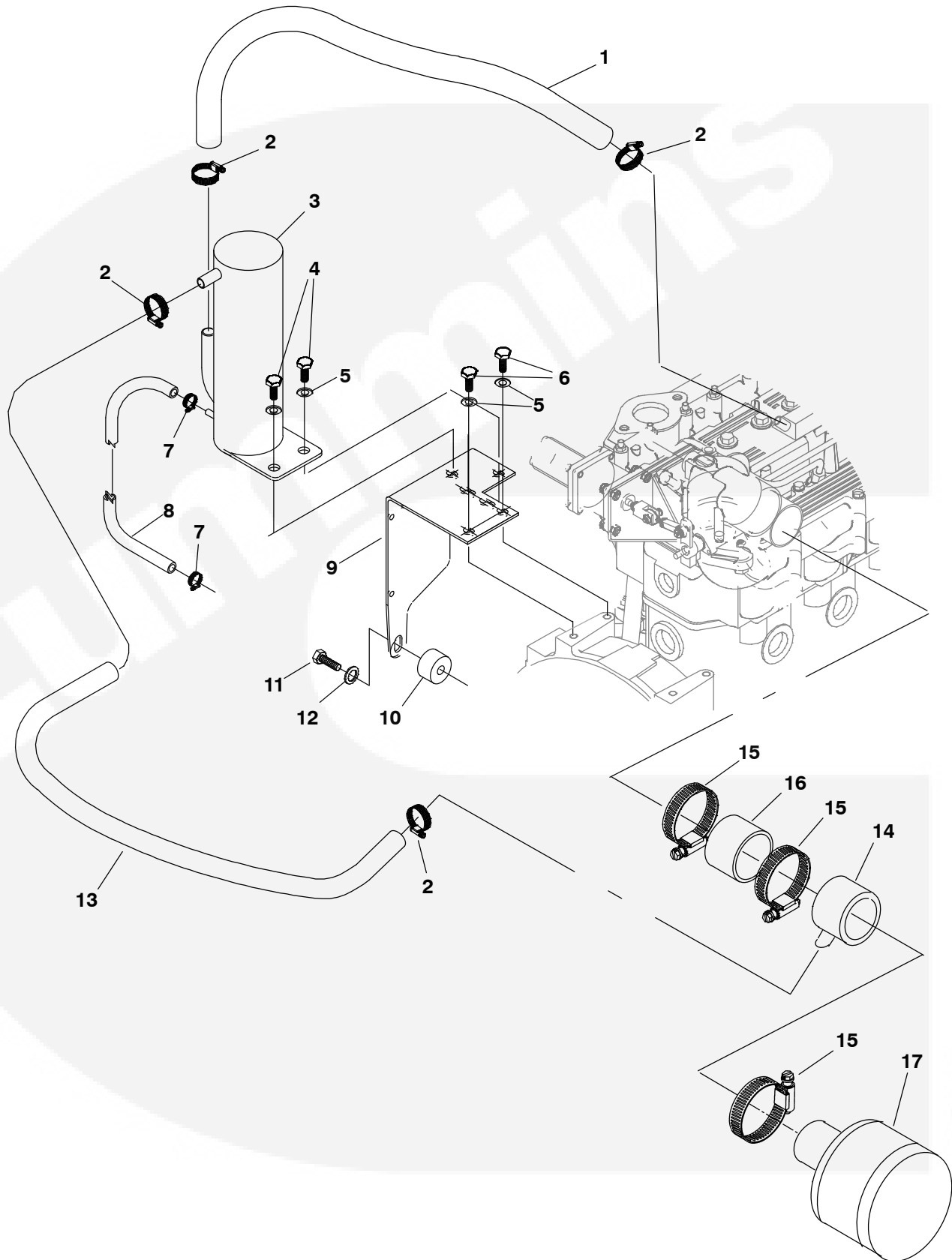


## Breather System (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6593	1	Cleaner, Air (Element Not Replaceable)	8	186-6778	1	Breather
2	186-6661	3	Clamp, Hose	9	186-6762	2	Clip, Hose
3	186-6965	1	Sleeve, Transition	10	186-6987	1	Hose, Inlet
4	186-6966	1	Sleeve, Hose	11	186-6536	2	Clamp, Hose
5	186-6934	2	Clamp, Hose (3/4")	12	186-6954	1	Hose, Drain
6	186-6967	1	Hose (1/2" ID x 9" Long)	13	186-6985	1	Bracket, Breather
7	186-6779	1	Restrictor	14	186-6618	2	Washer (M8)
				15	186-6186	2	Bolt (M8 x 45mm)

# **Breather System (Spec B)**

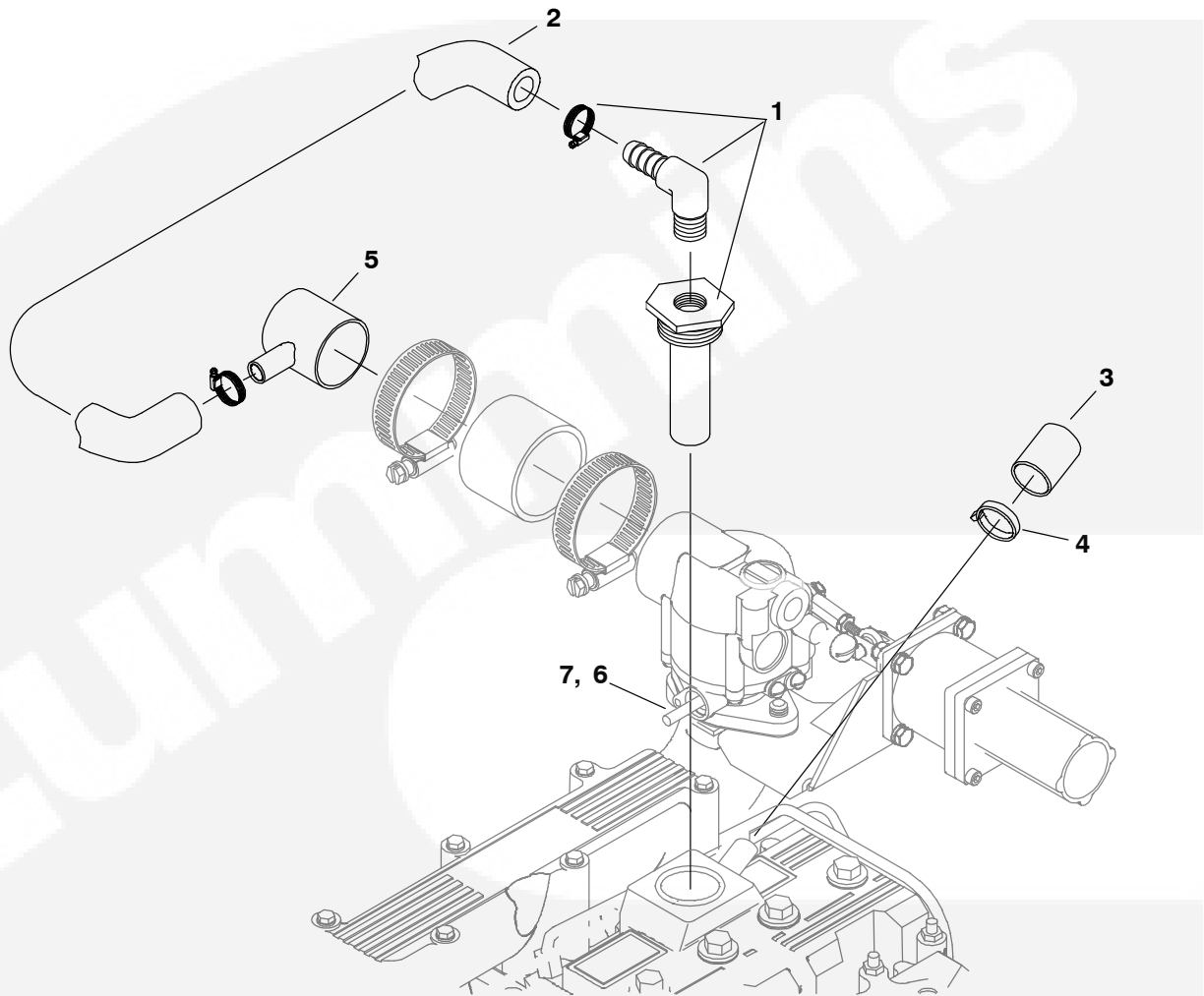




# **Breather System (Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7071	1	Hose (1/2 ID x 18" Lg)	10	186-7067	1	Spacer (24mm Lg)
2	186-6934	4	Clamp, Hose (3/4")	11	800-2089	1	Screw, Hex Head Cap (M10 x 1.5 x 40mm)
3	186-6778	1	Breather	12	186-7087	1	Washer, Plain (7/16")
4	186-6669	2	Screw, Hex Head Cap (M8 x 1.25 x 25mm)	13	186-7071	1	Hose (1/2 ID x 20" Lg)
5	186-6975	4	Washer, Flat (M8)	14	186-6965	1	Sleeve, Transition
6	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	15	186-6661	3	Clamp, Hose
7	186-6536	4	Clamp, Hose (.25 - .62" OD)	16	186-6966	1	Sleeve, Hose (2" ID x 1-1/4" Lg)
8	186-7070	1	Hose (1/4 ID x 10" Lg)	17	186-6593	1	Cleaner, Air (Element Not Replaceable)
9	186-7081	1	Bracket, Fuel/Air Breather				

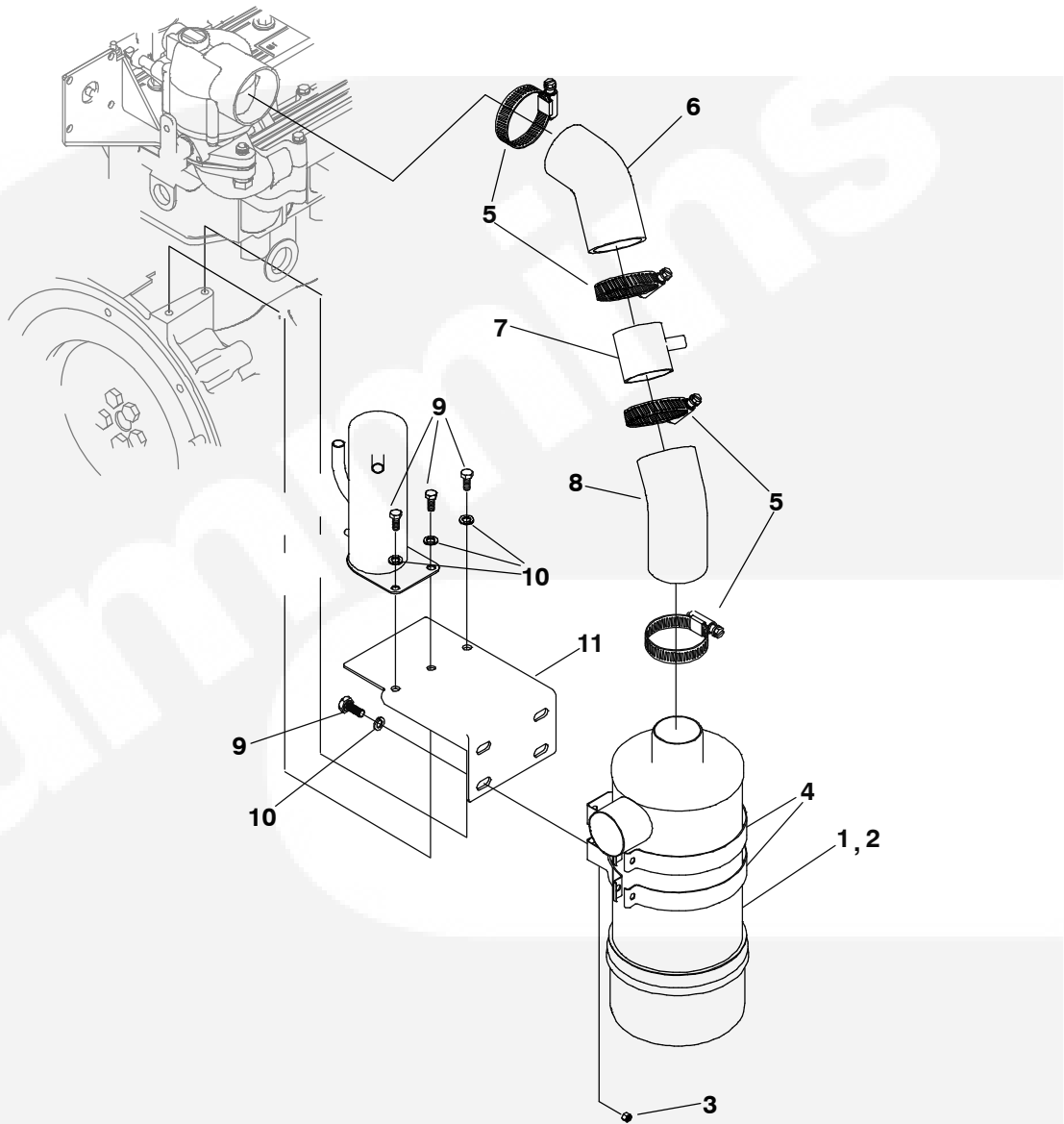
## Breather System (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0343	1	Breather, Crankcase	4	186-6662	1	Clamp, Hose
	184-0095	1	*Elbow	5	186-6965	1	Sleeve, Transition
	186-6934	2	*Clamp, Hose	6	186-6016	1	Plate, Fuel Lift Pump Blanking
2	184-0096	1	Hose	7	186-6017	2	Gasket, Blanking
3	186-6283	1	Cap				

\* - Included in Breather, Crankcase

## Heavy Duty Air Cleaner (Spec A)

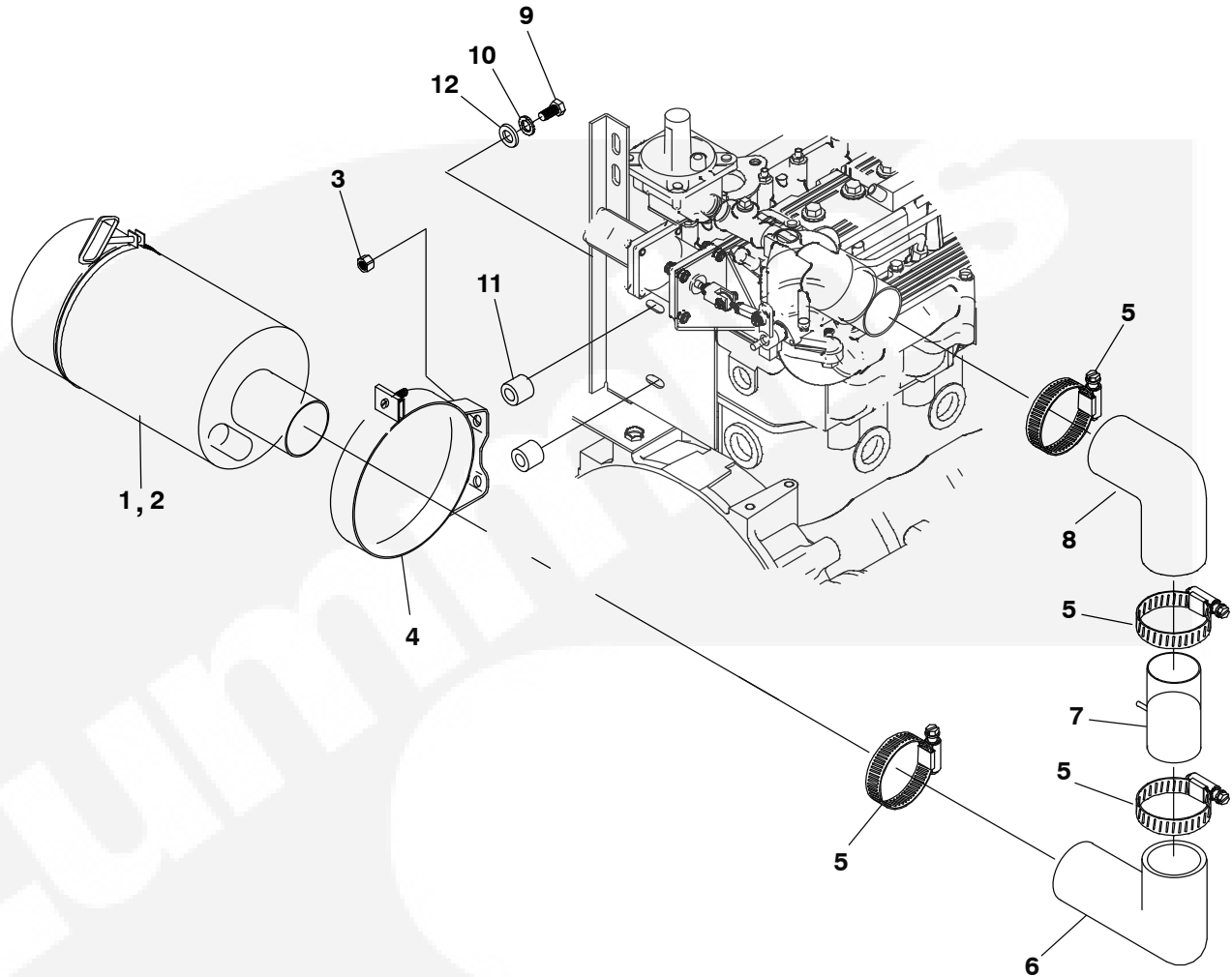


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6935	1	Cleaner Assy, Air (5-1/4") (Includes Element)	7	186-6966	1	Sleeve, Hose (2" ID x 1-1/4" Lg)
2	186-6685	1	Element, Air Cleaner	8	186-6990	1	Hose, Elbow
3	186-6274	4	Nut, Hex (M8 x 1.25)	9	186-6064	7	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
4	186-7000	2	Band, Mounting	10	186-6019	7	Washer, Lock (M8)
5	186-6661	4	Clamp, Hose	11	186-6984	1	Bracket, Air Cleaner
6	186-6989	1	Hose, Elbow				

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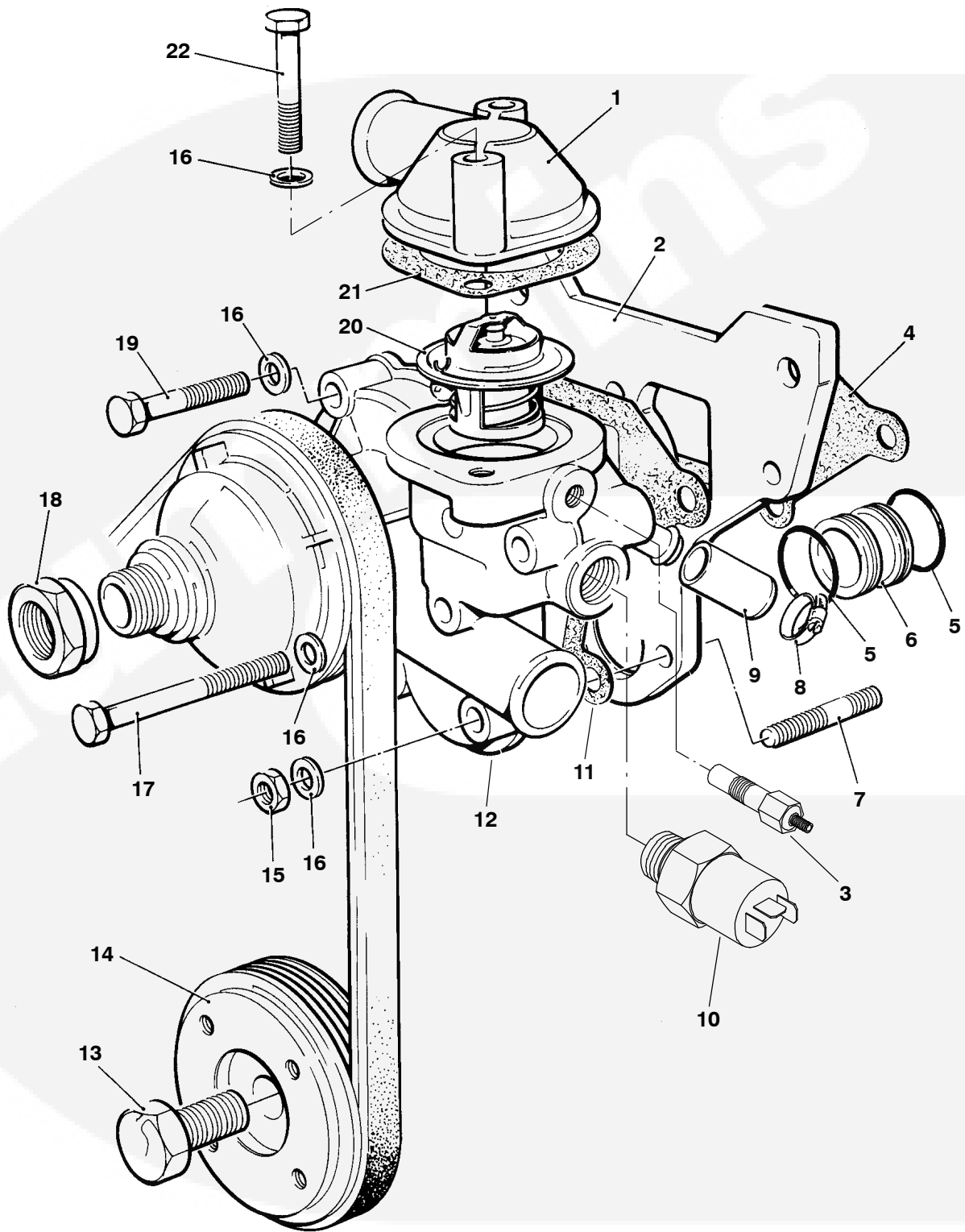


## Heavy Duty Air Cleaner (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6935	1	Cleaner Assy, Air (5-1/4") (Includes Element)	7	186-6965	1	Sleeve, Hose (2" ID x 1-1/4" Lg)
2	186-6685	1	Element, Air Cleaner	8	186-7072	1	Hose, Elbow
3	186-6274	2	Nut, Hex (M8 x 1.25)	9	186-7204	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
4	186-7000	1	Band, Mounting	10	186-6618	2	Washer, Lock (M8)
5	186-6661	4	Clamp, Hose	11	186-7090	1	Spacer
6	186-7213	1	Hose, Elbow	12	186-6975	2	Washer, Flat

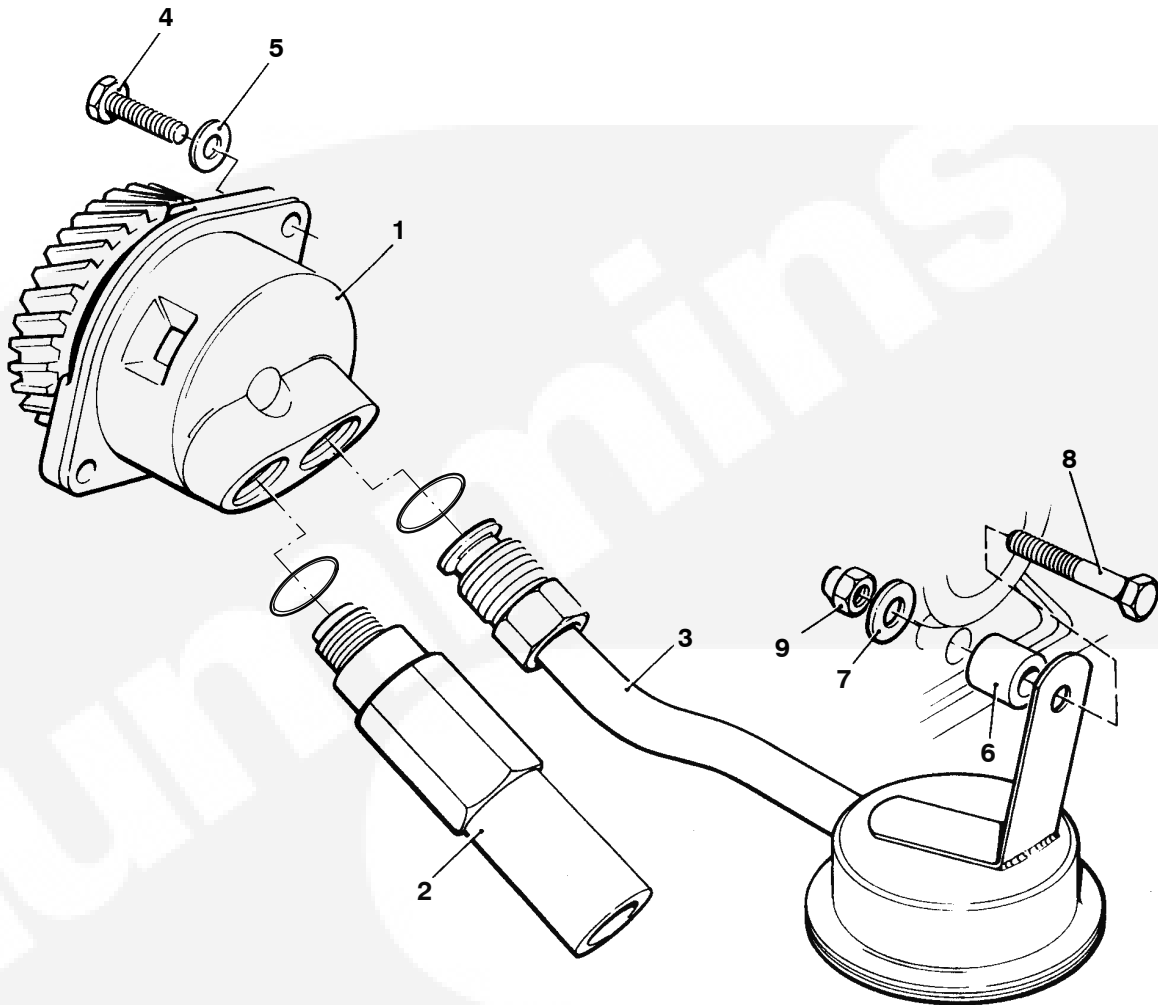
# Water Pump



## Water Pump

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6189	1	Outlet, Thermostat	13	186-7003	1	Bolt, Crankshaft Pulley
2	186-6181	1	Plate, Mounting	14	186-6548	1	Pulley, Crankshaft
3	186-6615	1	Sender, Temperature (Used With Detector Control)	15	186-6020	2	Nut, Hex (M8 x 1.25)
4	186-6182	1	Gasket	16	186-6187	9	Washer (M8)
5	186-6184	2	O'Ring	17	186-6185	3	Bolt (M8 x 75mm)
6	186-6183	1	Sleeve	18	186-6694	1	Nut, Fan
7	186-6188	2	Stud (M8 x 45mm)	19	186-6186	2	Bolt (M8 x 45mm)
8	186-6662	1	Clip, Hose	20	186-6193	1	Thermostat (190°F)
9	186-6283	1	Cap	21	186-6190	1	Gasket
10	186-6482	1	Switch, Water Temperature (Used With all Controls for Spec A, Used with Manual and Remote Controls for Begin Spec B)	22	186-6191	2	Bolt (M8 x 60mm)
11	186-6180	1	Gasket				
12	186-6178	1	Pump, Water (Puller Not Sold Separately)				

## Oil Pump

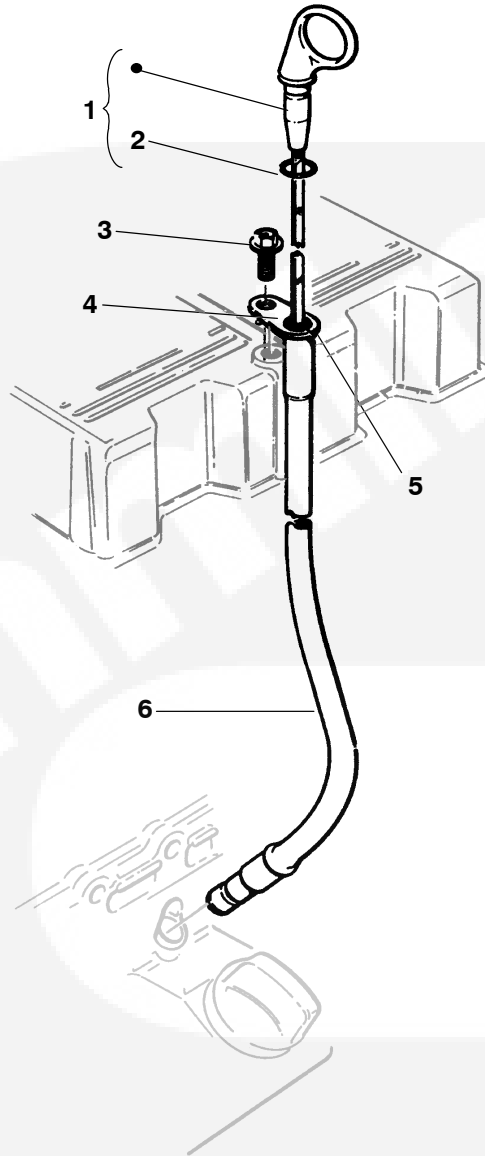


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6030	1	Pump, Oil
2	186-6031	1	Valve, Oil Relief
3	186-6032	1	Strainer, Oil
	186-6032	1	GNAA, GNAB
	186-6033	1	GNAC
4	186-6014	2	Screw, Hex Head Cap (M6 x 1 x 25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	186-6015	2	Washer (M6)
6	186-6411	1	Spacer
7	186-6412	1	Washer (M8)
8	186-6413	1	Screw, Hex Head Cap (M6 x 35mm)
9	186-6414	1	Nut, Lock (M6)

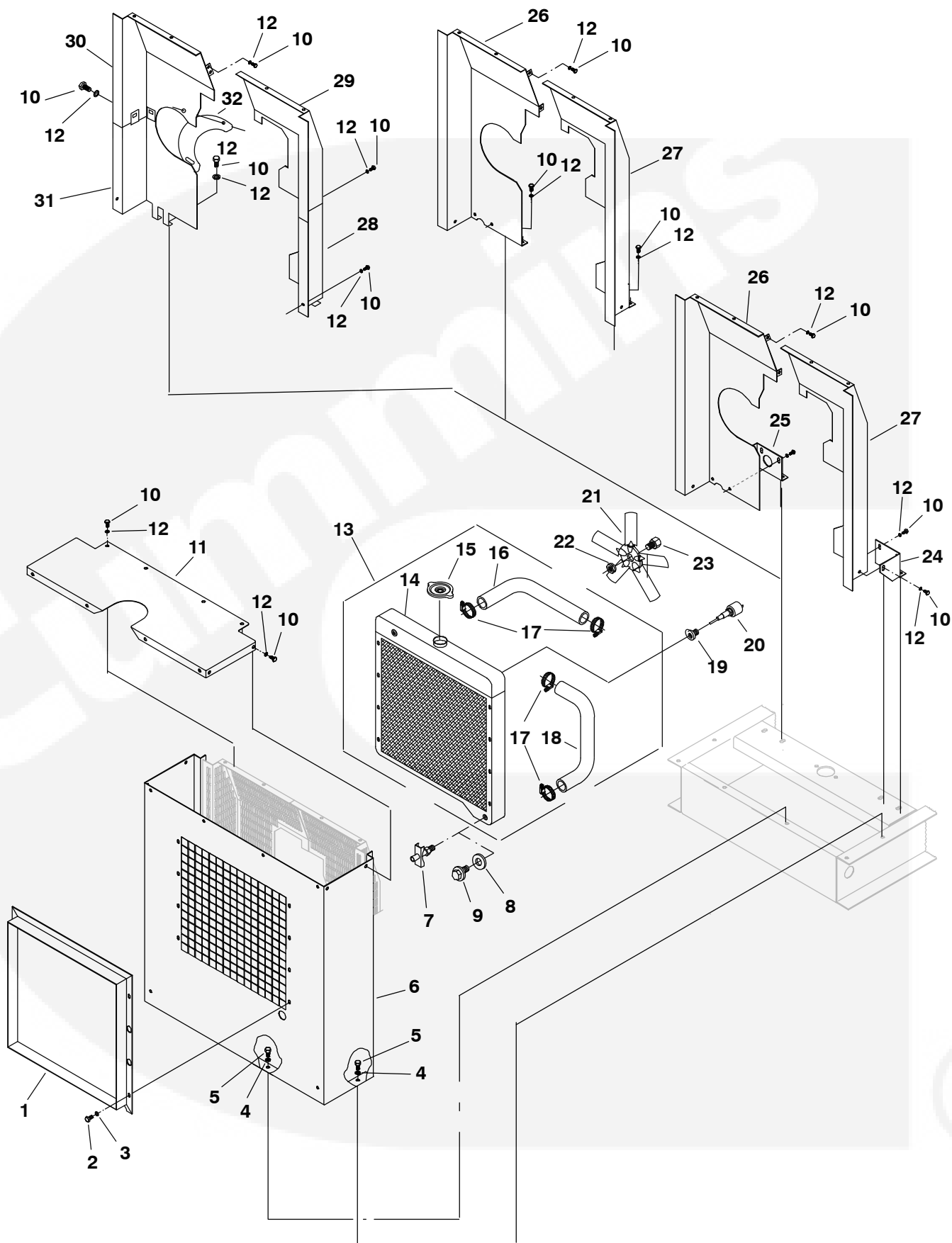


## Extended Oil Level Indicator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Extended Oil Level Indicator	3	186-6704	1	Screw
	123-2127	1	GNAA	4	186-6909	1	Bracket
	123-2131	1	GNAB, GNAC	5	186-6908	1	Grommet
1	186-6907	1	Oil Level Indicator (Includes O'Ring)	6			Tube
2	186-6029	1	O'Ring		186-6905	1	GNAA
					186-6906	1	GNAB, GNAC

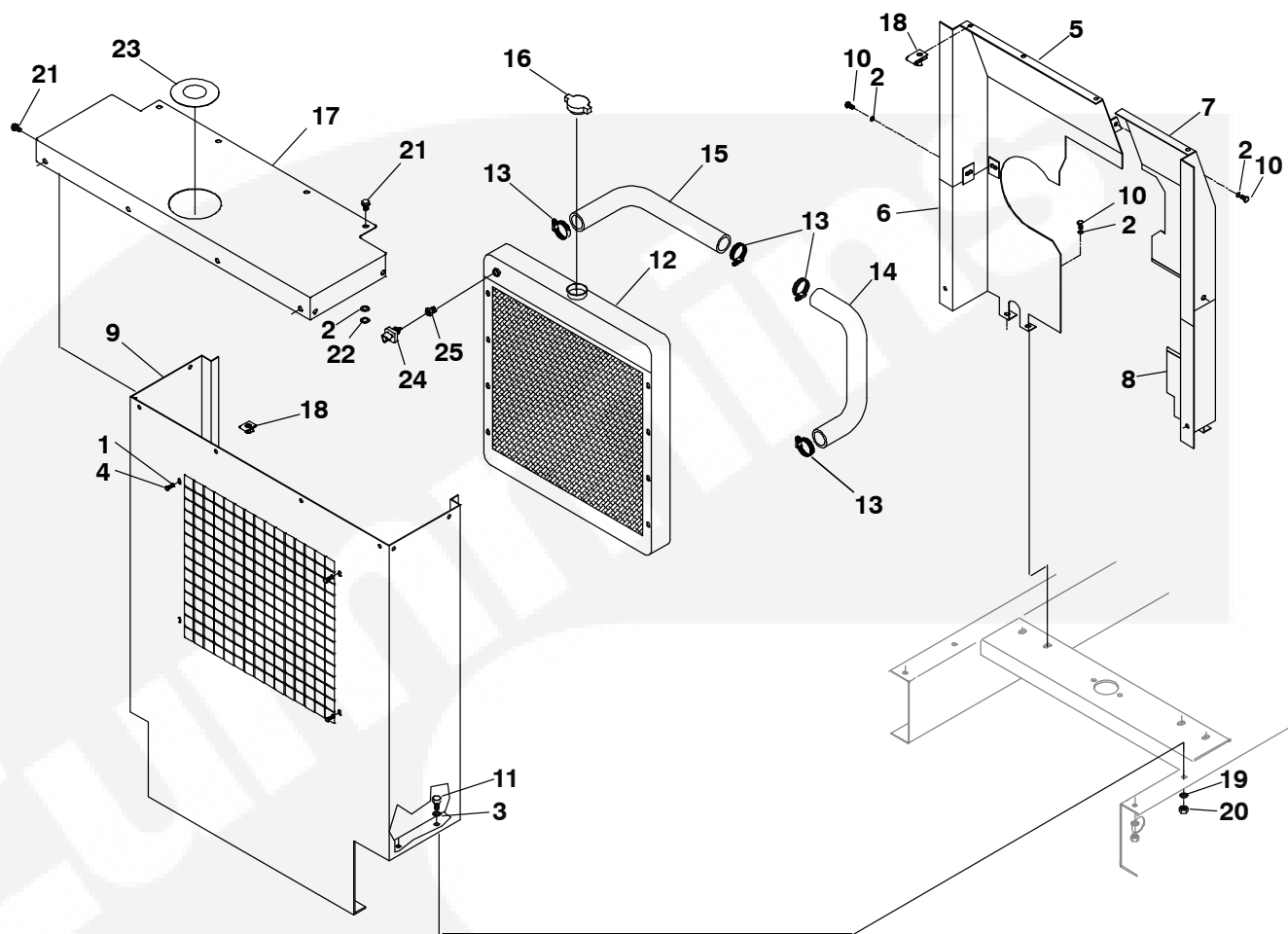
# Radiator



Radiator							
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	130-4690	1	Kit, Radiator Duct Adapter (Includes Adapter, Screws and Washers)	12			Washer, Flat (M8)
					186-6975	1824	Spec A
					186-6975	12	Spec B-C
1	186-6346	1	Adapter, Radiator Outlet Duct	13			Kit, Radiator (Includes
2			Screw, Hex Head Cap				Parts Marked *)
			Spec A		186-6926	1	GNAA
			GNAA		186-6691	1	GNAB, GNAC
	821-6002-03	6	W/O Adapter	14			*Radiator
			(M6 x 1 x 16mm)		186-6927	1	GNAA
			W/Adapter		186-6708	1	GNAB, GNAC
	821-6002-03	4	M6 x 1 x 16mm	15	186-6825	1	*Cap, Radiator
	186-6577	4	M6 x 1 x 14mm	16			*Hose, Top
			GNAB, GNAC		186-6928	1	GNAA
	821-6002-03	8	W/O Adapter		186-6706	1	GNAB, GNAC
			(M6 x 1 x 16mm)	17	186-6660	4	*Clip, Hose
			W/Adapter	18			*Hose, Bottom
	821-6002-03	4	M6 x 1 x 16mm		186-6930	1	GNAA
	186-6577	4	M6 x 1 x 14mm		186-6707	1	GNAB, GNAC
	821-6006-01	8	Begin Spec B	19	505-0018	1	Bushing (1/2 x 1/4 NPT)
3			Washer, Flat (M6) (Spec A)	20	186-7214	1	Switch, Low Coolant (S7)
			GNAA	21			Fan, Radiator
	186-6974	6	W/O Adapter		186-6929	1	GNAA
	186-6974	8	W/Adapter		186-6695	1	GNAB, GNAC
			GNAB, GNAC	22	186-7052	1	Nut, Fan
	186-6974	8	W/O Adapter	23	186-6705	1	Spacer, Radiator
	186-6974	8	W/Adapter	24	186-6318	1	Bracket, Right Guard (Spec A)
4	186-6976	6	Washer, Flat (M10)	25	186-6319	1	Bracket, Left Guard (Spec A)
5	186-6676	6	Screw, Hex Head Cap	26	186-6315	1	Guard, Left Fan (Spec A)
			(M10 x 1.5 x 20mm)	27	186-6314	1	Guard, Right Fan (Spec A)
6			Cowl, Radiator	28	186-7196	1	Guard, Bottom Right Fan
			Spec A				(Spec B-C)
			GNAA	29	186-7195	1	Guard, Top Right Fan
	186-6375-00	1	Green				(Spec B-C)
	186-6375-06	1	Sandstone	30	186-7103	1	Guard, Top Left Fan
			GNAB, GNAC				(Spec B-C)
	186-6317	1	Green	31	186-7117	1	Guard, Bottom Left Fan (Begin
	186-6317-06	1	Sandstone				Spec B)
			Spec B-C	32	186-7197	1	Plate, Alternator Adjustment
	186-7102	1	GNAA				(Spec B-C)
	186-6889	1	GNAB, GNAC				
7	186-6824	1	Valve, Drain				
8	186-6823	1	Gasket, Drain Plug				
9	186-6822	1	Plug, Drain				
10	186-6668	AR	Screw, Hex Head Cap				
11			Cover, Radiator Support				
			(Unhoused Units)				
	186-6316	1	Spec A				
	186-7118	1	Spec B-C				

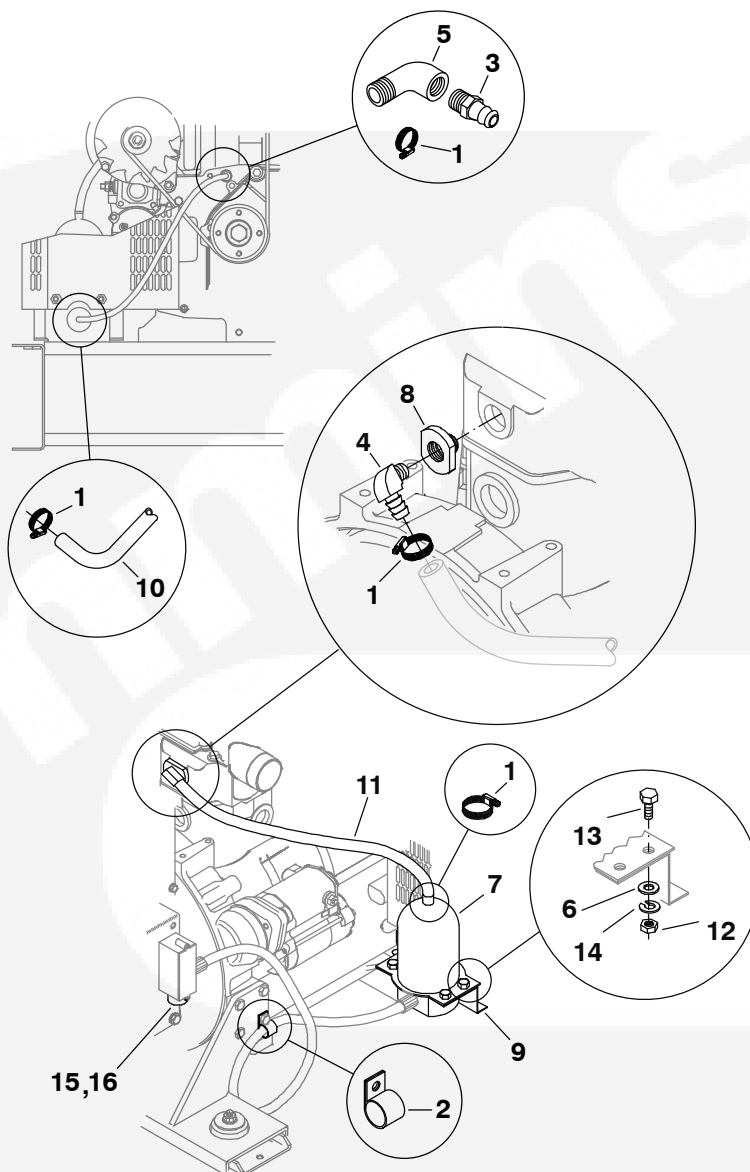
\* - Parts Included in Radiator Kit.

## Radiator (Begin Spec D)



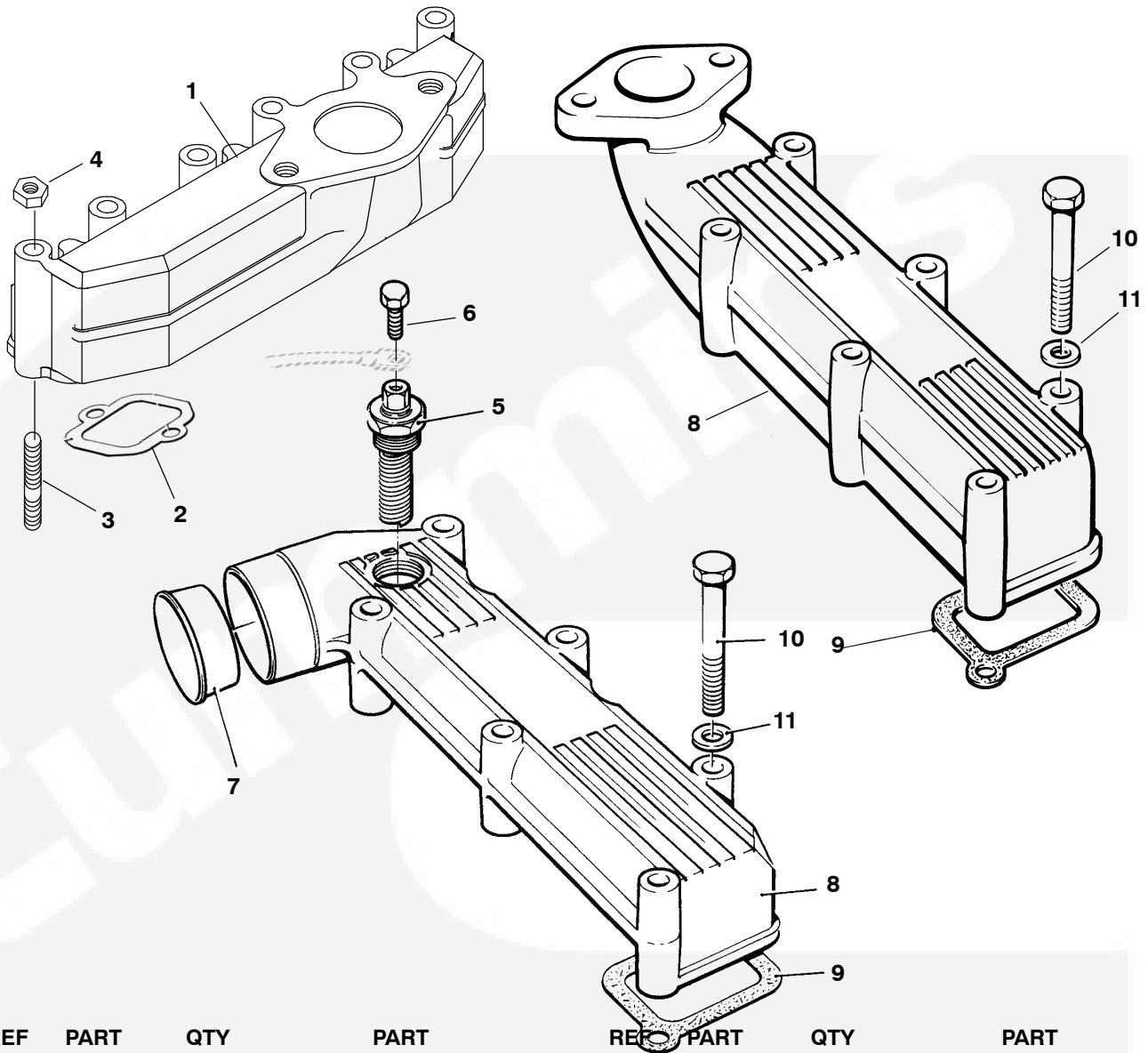
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6187	16	Washer, Flat (5/16")	13	186-6660	4	Clip, Hose
2	186-6975	12	Washer, Flat (M8)	14	186-6707	1	Hose, Bottom
3	186-6976	8	Washer, Flat (M10)	15	186-6706	1	Hose, Top
4	186-6546	16	Screw, Hex Head Cap (M6 x 1.0 x 16mm)	16	186-6825	1	Radiator, Cap
5	184-0240	1	Guard, Radiator (Top LH)	17	184-0341	1	Shroud, Fan
6	184-0241	1	Guard, Radiator (Bottom LH)	18	184-0326	11	U-Nut
7	184-0238	1	Guard, Radiator (Top RH)	19	186-6671	4	Washer, Lock (M10)
8	184-0239	1	Guard, Radiator (Bottom RH)	20	186-6665	4	Nut, Hex (M10 x 1.5mm)
9	184-0221	1	Panel, Radiator HSG	21	186-6064	12	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
10	186-6668	12	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	22	184-0253	12	Washer, Nylon Flat
11	186-6676	6	Screw, Hex Head Cap (M10 x 1.5 x 20mm)	23	186-6640	1	Plug, Bottom (4"Dia)
12	185-6708	1	Radiator	24	193-0558	1	Senor, Level (Coolant)
				25	184-0317	1	Bushing (1/2 x 1/4NPT)

## Coolant Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	333-0617-01	1	Kit, Coolant Heater	8	186-6631	1	Adapter, Cylinder Head
	333-0617-02	1	120V (H036)	9	186-6372	1	Bracket, Heater
	333-0617-02	1	208/240V (H540)	10	186-6632	1	Bend, Hose
1	186-6451	4	Clamp, Hose (7/16")	11			Hose
2	186-6475	1	Clamp, Tubing (3/4")		186-6657	1	GNAA (18")
3	186-6495	1	Barb, Hose		186-6658	1	GNAB (22")
4	186-6496	1	Barb, 90° Hose		186-6659	1	GNAC (26")
5	186-6941	1	Elbow, Street (3/8")	12	186-6209	4	Nut, Hex (M6 x 1)
6	186-6617	4	Washer, Flat Spring (M6)	13	186-6546	4	Screw, Hex Head Cap (M6 x 1 x 16mm)
7			Heater, Coolant (Includes	14	186-6591	4	Washer, Flat
			Thermostat and Element)	15	186-6624	1	Fitting, Conduit (1/2")
	333-0588-01	1	120V	16	186-6911	2	Screw, Self Tapping (#8 x 3/4")
	333-0588-02	1	208/240V				
	333-0545	1	Thermostat, Coolant Heater				
			Element, Coolant Heater				
	333-0546	1	120V				
	333-0547	1	208/240				

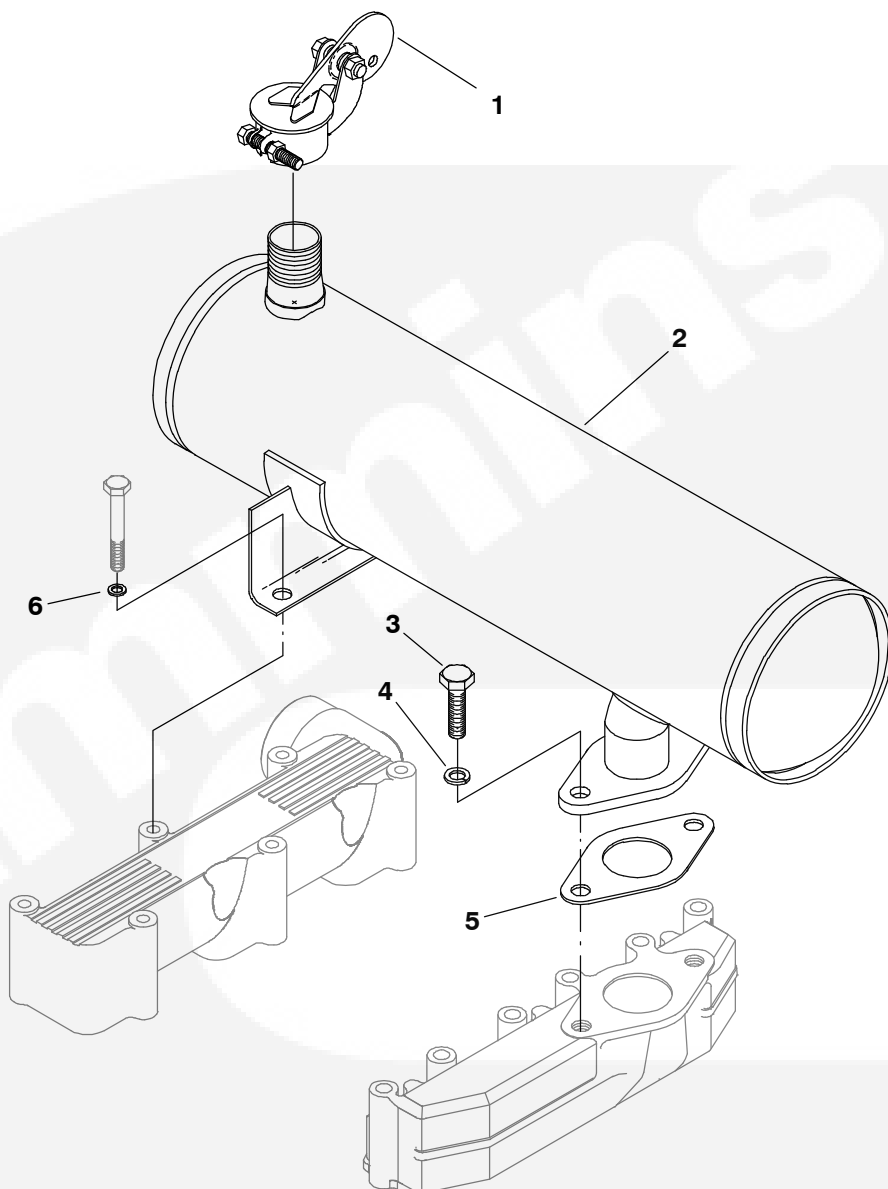
## Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold, Exhaust (Includes Manifold Gaskets)
	186-7001	1	GNAA
	186-6456	1	GNAB
	186-7002	1	GNAC
2			Gasket, Exhaust Manifold
	186-6206	2	GNAA
	186-6206	3	GNAB
	186-6206	4	GNAC
3			Stud (M6)
	186-6208	4	GNAA
	186-6208	6	GNAB
	186-6208	8	GNAC
4			Nut (M6 x 1)
	186-6209	4	GNAA
	186-6209	6	GNAB
	186-6209	8	GNAC
5	186-6459	1	Plug, Heater (Includes Screw)
6	186-6841	1	Screw

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	186-6454	1	Restrictor, Inlet Manifold (Includes Decal)
8			Manifold, Inlet
	186-7007	1	GNAA
	186-7008	1	GNAB
	186-7009	1	GNAC
9			Gasket, Inlet Manifold
	186-6202	4	GNAA
	186-6202	6	GNAB
	186-6202	8	GNAC
10			Bolt (M6 x 1 x 75mm)
	186-6203	4	GNAA
	186-6203	6	GNAB
	186-6203	8	GNAC
11			Washer (M6)
	186-6015	4	GNAA
	186-6015	6	GNAB
	186-6015	8	GNAC

## Muffler



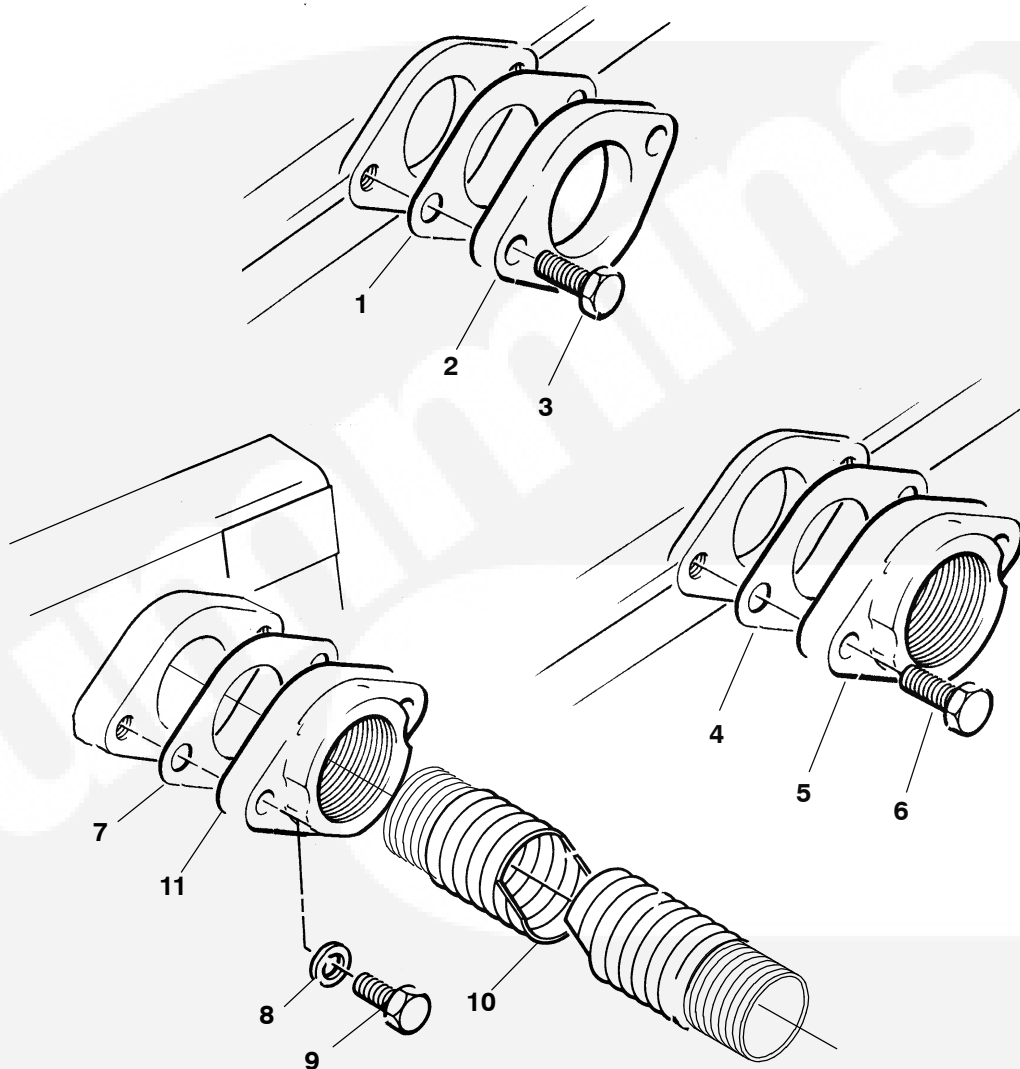
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3140	1	Kit, Industrial Muffler (Includes Parts Marked *)	3	186-6676	2	*Screw, Hex Head Cap (M10 x 1.5 x 20mm)
			Cap, Rain	4	186-6619	2	*Washer, Flat (M10)
			Spec A (1-1/2")	5	186-6683	1	*Gasket, Muffler (Fibre)
	186-6939	1	* Industrial	6	186-6933	2	*Washer
2	186-6981	1	Critical	* - Parts Included in Industrial Muffler Kit.			
	186-6634	1	Begin Spec B(2")				
			Muffler				
			Spec A				
	186-6612	1	* Industrial				
	186-6982	1	Critical				
	186-6982	1	Begin Spec B(Critical)				
	186-6982	1	GNAB				
	186-7063	1	GNAC				

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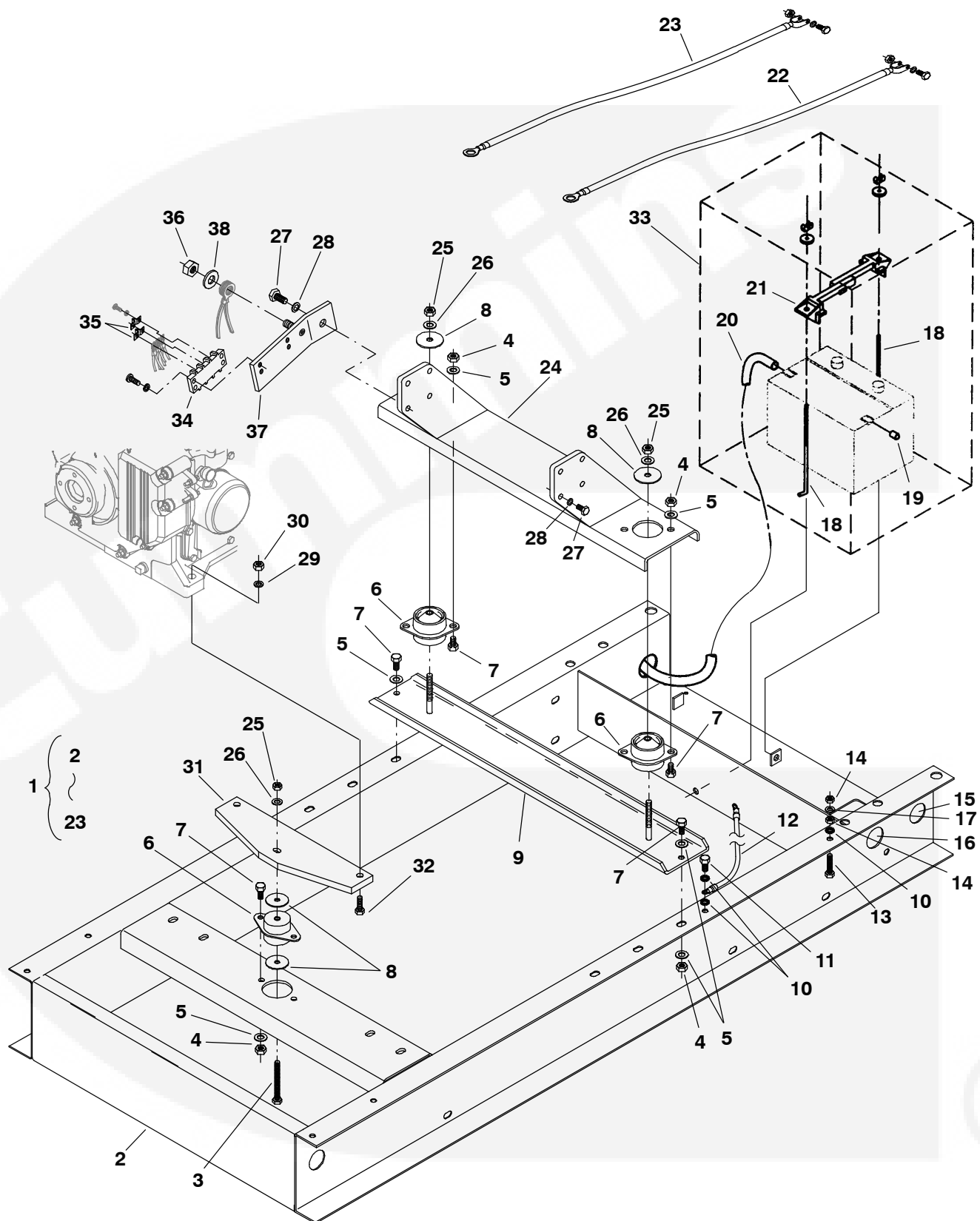
## Exhaust Flanges



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155-3210	1	Kit, Unthreaded Exhaust Flange (Includes Gasket, Flange and Screw)	5	186-7036	1	Flange, NPT Exhaust
	155-3209	1	Kit, Threaded Exhaust Flange (Includes Gasket, Flange and Screw)	6	186-6672	2	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
	155-3211	1	Kit, Flexible Exhaust Pipe (Includes Parts Marked *)	7	186-6683	1	*Gasket
1	186-6683	1	Gasket	8	526-0029	2	*Washer, Flat
2	186-6845	1	Flange, Exhaust	9	800-2088	2	*Screw, Hex Head Cap (M10 x 35mm)
3	186-6570	2	Screw, Hex Head Cap	10	155-2355-03	1	*Tube, Exhaust
4	186-6683	1	Gasket	11	186-6843	1	*Flange, Mating

\* - Parts Included in Flexible Exhaust Pipe Kit.

# Mounting Base



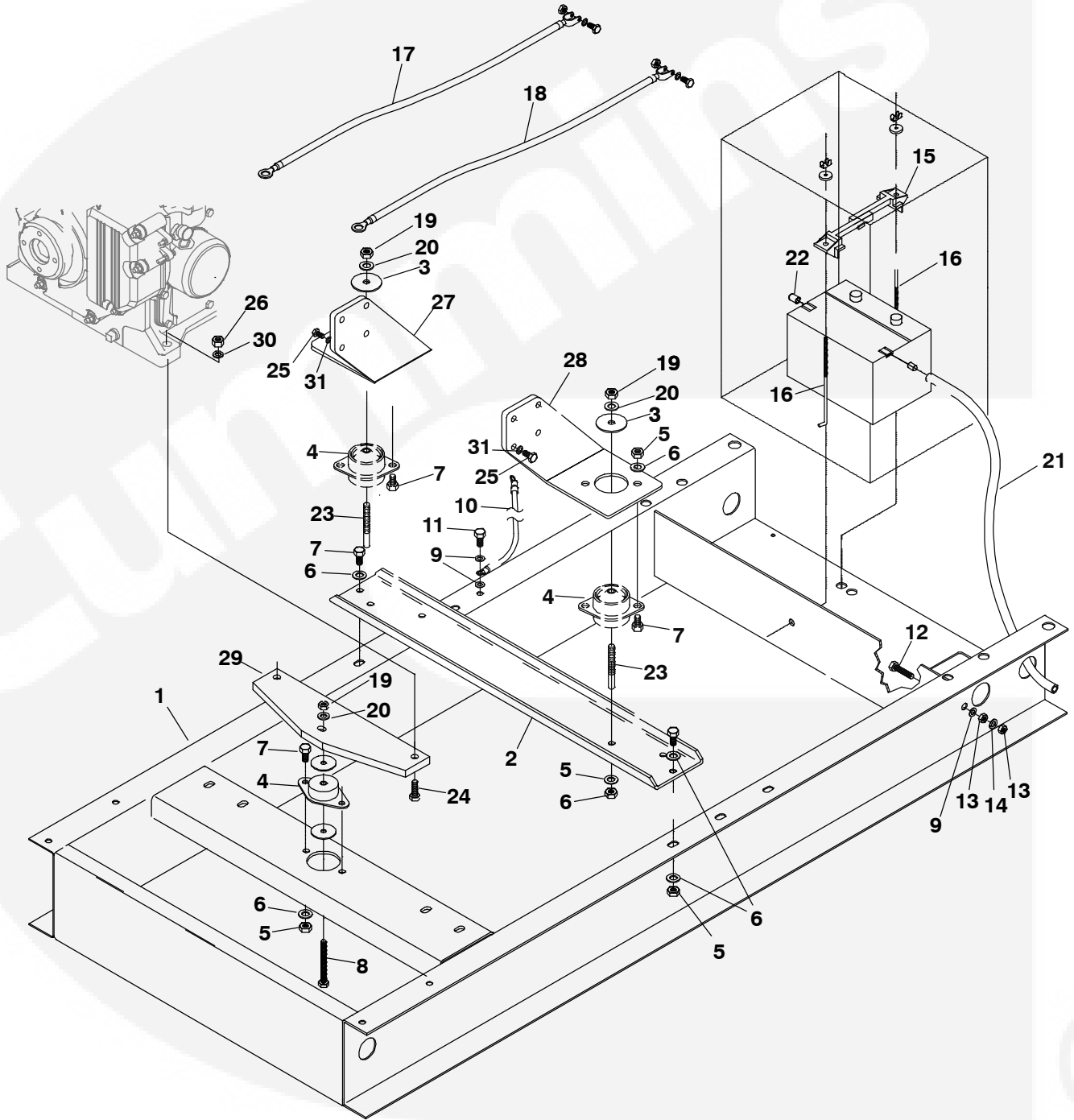
## Mounting Base

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Kit, Skid Base (Spec A) (Includes Parts Marked +)				Spec B-C
	403-4282	1	GNAA	186-7171	1		GNAA
	403-4148	1	GNAB	186-7172	1		GNAB
				186-7173	1		GNAC
2			Base, Mounting	23			+ Cable, Negative Battery
	186-6300	1	+ Spec A		186-6336	1	GNAA
	186-6300-00	1	Green		186-6337	1	GNAB, GNAC
	186-6898	1	Begin Spec B	24	186-6301	1	Brace, Rear Engine
3			Screw, Hex Head Cap	25	186-6449	3	Nut, Hex (7/16")
	186-7046	1	+ Spec A (M10 x 1.5 x 80mm)	26	186-6637	3	Washer, Spring (7/16")
	186-6638	1	Begin Spec B	27	186-6672	8	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
			(7/16-14 x 3-1/4")	28	186-6976	8	Washer, Spring (5/15")
4	186-6665	8	+ Nut, Hex (M10 x 1.5)	29	186-6620	2	Washer, Spring (M12)
5	186-6619	10	+ Washer, Spring (M10)	30	186-6666	2	Nut, Lock (M12 x 1.75)
6			Mount Engine	31	186-6306	1	Plate, Front Engine
			+ Spec A	32	186-6674	2	Screw, Hex Head Cap (M12 x 1.75 x 55mm)
	186-6305	3	GNAA	33	416-1042	1	Kit, Battery Vent Hose (Includes Parts Marked * and Washers/Nuts)
	186-6304	3	GNAB				
	186-6303	3	GNAC	34	332-0611	1	Block, Terminal (Use With Detector Control)
	402-0676-01	3	Spec B-C				
	402-0676-01	3	GNAA, GNAB	35	332-1043	2	Jumper, Terminal Block (Use With Detector Control)
	402-0676-02	3	GNAC				
7	186-6676	8	+ Screw, Hex Head Cap (M10 x 1.5 x 20mm)	36	186-6020	2	Nut, Hex (M8 x 1.25) (Use With Detector Control)
8	186-6379	4	+ Washer, Rebound				
9	186-6307	1	+ Foot, Sliding	37	186-6369	1	Bracket, Mounting (Use With Detector Control)
	186-6307-00	1	Green				
	186-6307-06	1	Sandstone	38	186-6618	1	Washer, Spring (M8) (Use With Detector Control)
10	186-6623	3	+ Washer, EIT (5/16")				
11	186-6668	1	+ Screw, Hex Head Cap (M8 x 1.25 x 16mm)				
12	186-6340	1	+ Cable, Ground				
13	186-6669	1	+ Screw, Hex Head Cap (M8 x 1.25 x 25mm)				
14	186-6274	2	+ Nut, Hex (M8 x 1.25)				
15	517-0138-08	4	Plug, Hole (Begin Spec B)				
16	517-0138-07	1	Plug, Hole (Begin Spec B)				
17	186-6019	1	+ Washer, Spring (M8)				
18	186-6406	2	+* Bolt, Hold-Down (1/4-20)				
19	186-6854	1	+* Cap				
20	186-6853	1	+* Hose (5/16 ID x 15)				
21	186-6835	1	+* Hold-Down, Battery				
22			Cable, Positive Battery				
			+ Spec A				
	186-6333	1	GNAA				
	186-6334	1	GNAB, GNAC				

+ - Parts Included in Skid Base Kit (Spec A)

\* - Parts Included in Battery Vent Hose Kit.

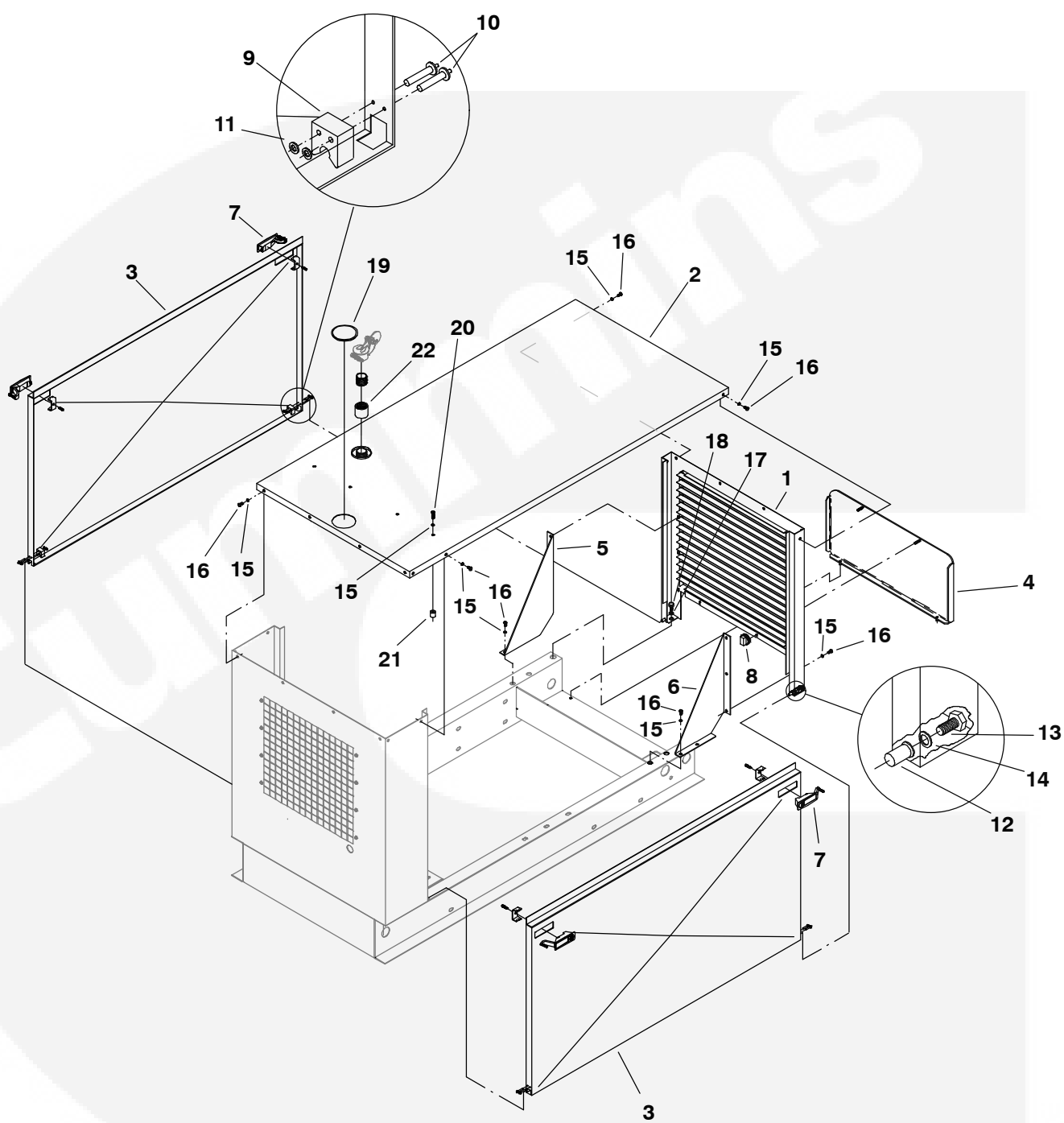
# **Mounting Base (Begin Spec D)**



### Mounting Base (Begin Spec D)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0210	1	Base Skid	15	186-6835	1	Hold-Down, Battery
2	184-0218	1	Steel, Cold Rolled Commercial	16	186-6406	2	Bolt, Battery Hold Down
3	186-6379	4	Washer, Rebound	17	186-7171	1	Cable, Positive Battery
4			Isolator, Vibration	18	186-6336	1	Cable, Negative Battery
	402-0676-01	3	GNAA and GNAB	19	862-0035	3	Nut, Hex (1/2-13)
	402-0676-02	3	GNAC	20	850-1060	3	Washer, Lock (1/2")
5	186-6665	8	Nut, Hex (M10 X 1.5MM)	21	186-6853	1	Hose (5/16 ID 15)
6	186-6619	10	Washer, Flat (M10)	22	186-6854	1	Cap
7	186-6676	8	Screw, Hex Head Cap (M10 x 1.5 x 20mm)	23	184-0356	2	Bolt, Carriage (1/2-13 x 3")
8	184-0357	1	Screw, Hex Head Cap (1/2-13 x 3")	24	186-6674	2	Screw, Hex Head Cap (M12 x 1.75 x 55mm)
9	186-6623	3	Washer, Tooth	25	186-6672	8	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
10	186-6340	1	Cable, Ground	26	186-6666	2	Nut, Lock (M12 x 1.75)
11	186-6668	1	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	27	184-0219	1	Mount, Engine (LH Rear)
12	186-6669	1	Screw, Hex Head Cap (M8 x 1.25 x 25mm)	28	184-0220	1	Mount, Engine (RH Rear)
13	186-6274	2	Nut, Hex (M8 x 1.25)	29	186-6306	1	Plate, (Front Engine)
14	186-6019	1	Washer, Lock (M8)	30	186-6620	2	Washer, Flat (M12)
				31	186-6976	16	Washer, Flat (M10)

# Housing (F1) (Spec A)

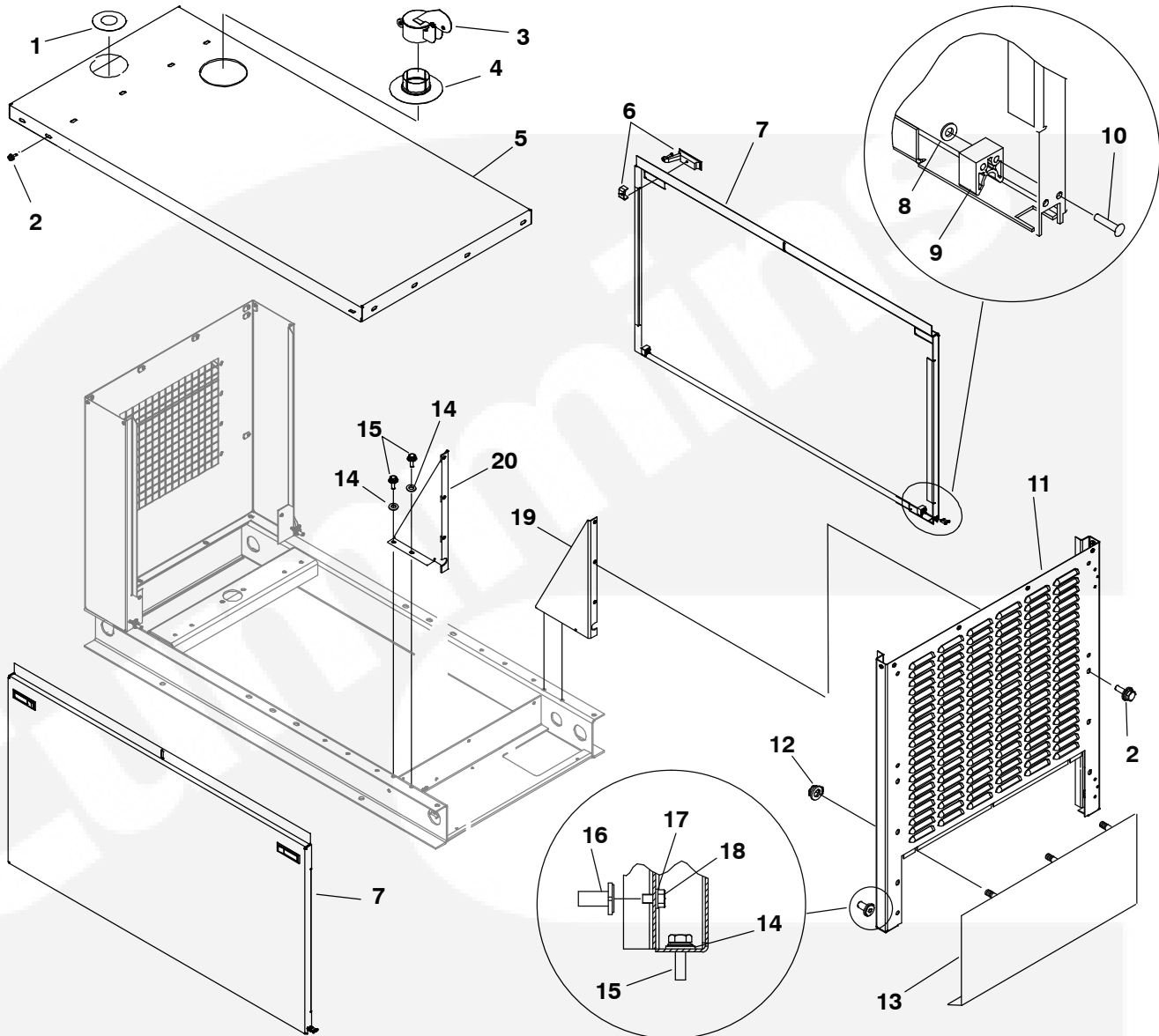


## Housing (F1) (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Housing (Includes Parts Marked *)		186-6325-00	1	Green
					186-6325-06	1	Sandstone
	405-5815	1	GNAA (Includes Parts Marked *)	7	186-6611	4	+*Latch, Lockable Lever
				8	140-2761	2	+*Knob, Air Cleaner
	405-5816	1	GNAB, GNAC (Includes Parts Marked *)	9	405-1872	4	+*Clip, Door
1	186-6322	1	+*Panel, Rear	10	818-0150	8	+*Rivet, Pivot Block
	186-6322-00	1	Green	11	526-0003	8	+*Washer, Rivet
	186-6322-06	1	Sandstone	12	870-0258	4	+*Pin, Door Pivot
2			*Panel, Top	13	186-6664	4	+*Screw, Hex Head Cap (1/4-20 x 1/2")
			GNAA	14	186-6974	4	+*Washer, Flat Spring (M6)
	186-6378-00	1	Green	15	186-6975	24	Washer, Flat (M8)
	186-6378-06	1	Sandstone	16	186-6668	24	+*Screw, Hex Head Cap (M8 x 1.25 x 16mm)
			GNAB, GNAC	17	186-6976	2	Washer, Spring Flat (M10)
	186-6324-00	1	Green	18	186-6676	2	+Screw, Hex Head Cap (M10 x 1.5 x 20mm)
	186-6324-06	1	Sandstone	19	186-6640	1	+Plug, Button (4")
3			*Door, Housing	20	186-6670	4	+Screw, Hex Head Cap (M8 x 1.25 x 40mm)
	186-6320-00	2	Green	21	186-6641	4	+Spacer
	186-6320-06	2	Sandstone	22	186-6616	1	Coupling, Pipe
4	186-6323	1	+*Cover, Battery				
	186-6323-00	1	Green				
	186-6323-06	1	Sandstone				
5	186-6326	1	+*Strut, Right Side Housing				
	186-6326-00	1	Green				
	186-6326-06	1	Sandstone				
6	186-6325	1	+*Strut, Left Side Housing				

\* – Parts Included in GNAA/B/C Housing Kits.

## Housing (F183, F184) (Begin Spec B)

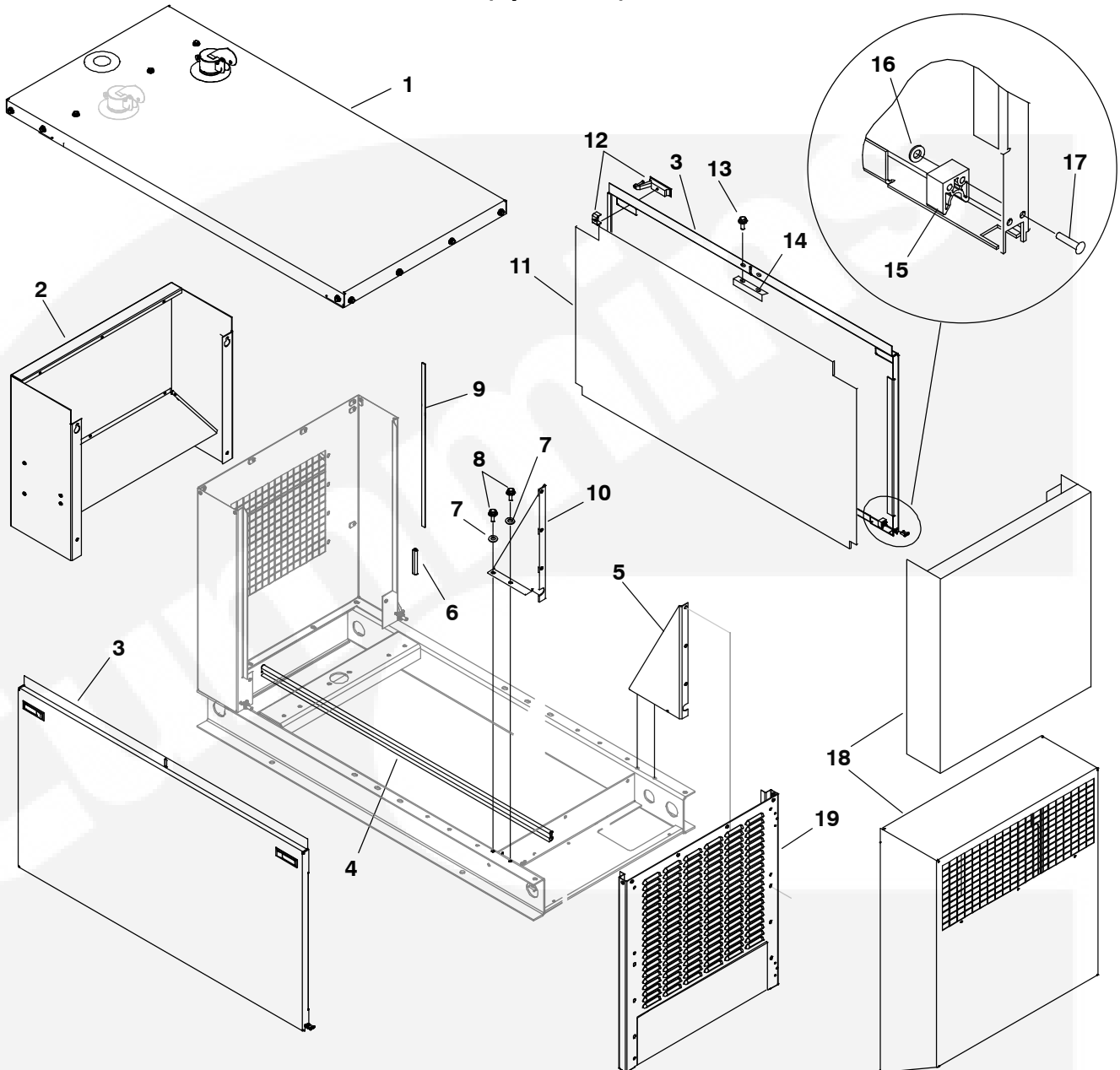


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6640	1	Plug, Button (4")
2	821-6007-02	24	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
3	186-6634	1	Cap, Rain
4	186-7147	1	Shield, Rain
5	186-6892	1	Panel, Top
	186-6893	1	GNAA
	186-6893	1	GNAB, GNAC
6	186-6611	4	Latch
7	186-6887	2	Panel, Door
8	526-0003	8	Washer, Flat (#8)
9	405-1872	4	Clip, Door
10	818-0150	8	Rivet, Drive (5/32)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	186-6899	1	Panel, Rear
12	140-2761	3	Knob
13	186-6896	1	Cover, Battery
14	186-6975	6	Washer (M8)
15	186-6064	6	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
16	870-0258	4	Rivet, Pivot Block
17	186-6974	4	Washer, Flat (M6)
18	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2")
19	186-6881	1	Strut, Housing (Left)
20	186-7109	1	Strut, Housing (Right)



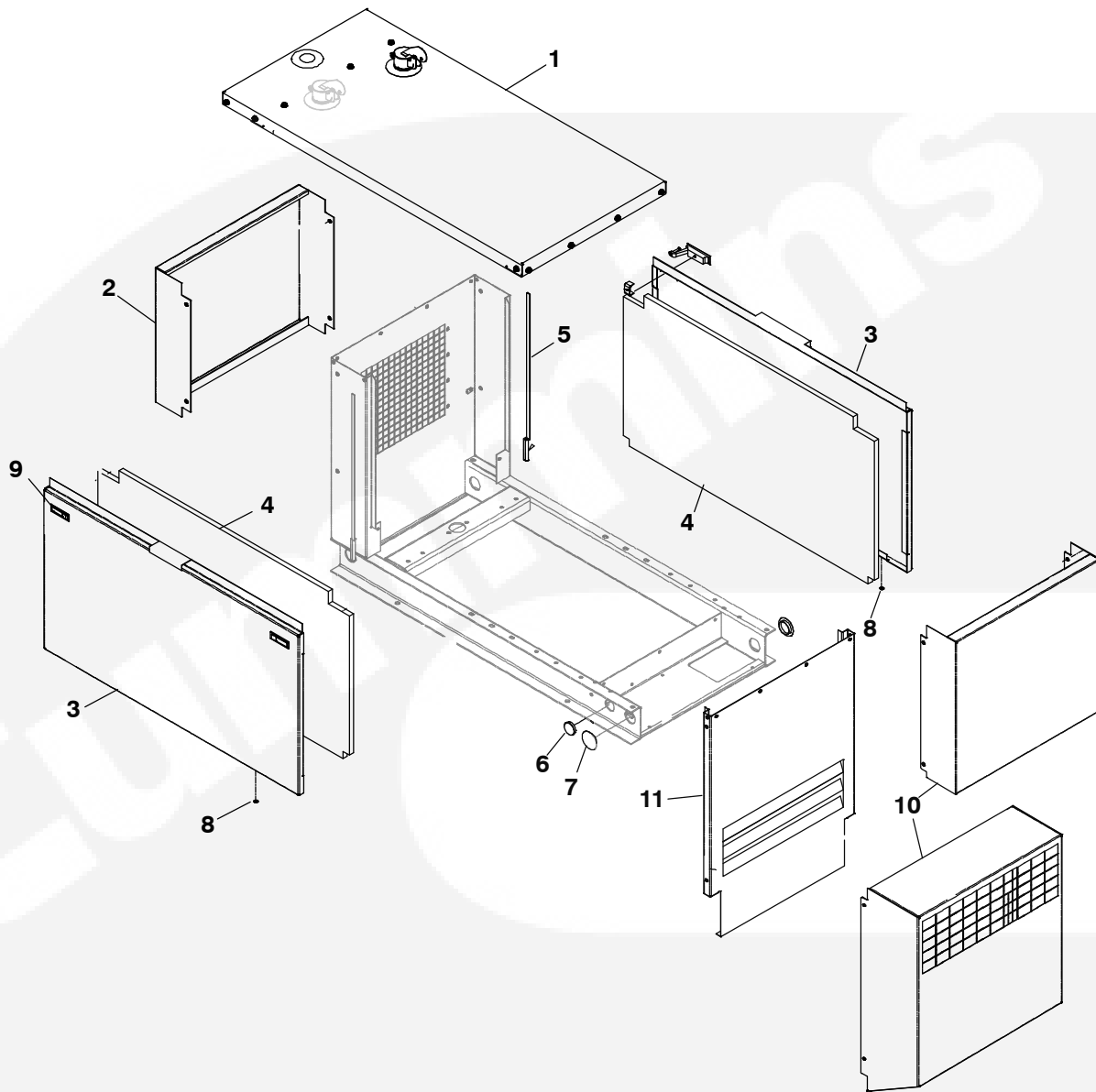
# Housing (F172, F173) (Spec B-C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Panel, Top (See Separate Page for Components)
2	-	1	Duct, Front (F173) (See Separate Page for Components)
3	186-6887	2	Panel, Door
4	186-7164	2	Seal, Sound (1270mm)
5	186-6881	1	Strut, Housing (Left)
6	186-7163-05	2	Seal, Sound (90mm)
7	186-6975	4	Washer (M8)
8	186-6064	4	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
9	186-7162-08	2	Gasket (704mm)

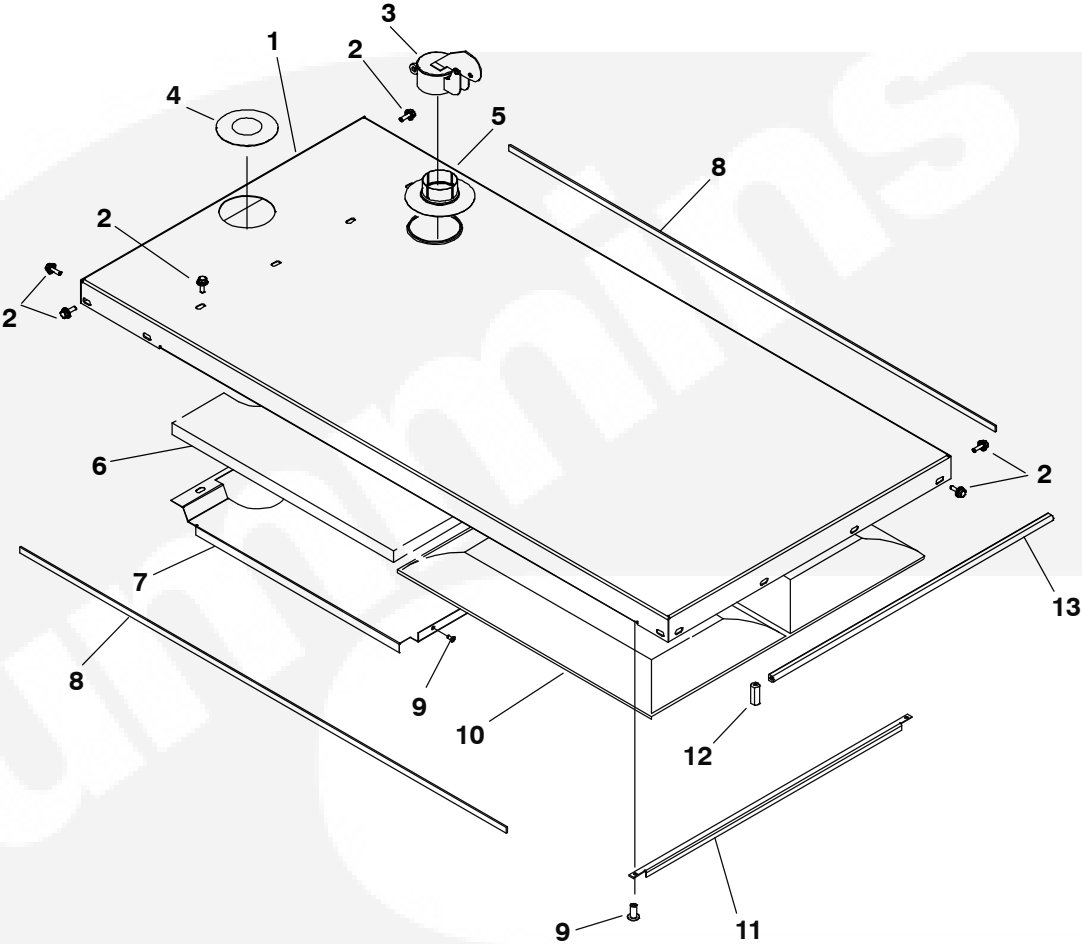
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	186-7109	1	Strut, Housing (Right)
11	186-7154	2	Insulation, Door
12	186-6611	4	Latch
13	818-0231-02	4	Rivet, Pop
14	186-6888	2	Support, Insulation
15	405-1872	4	Clip, Door
16	526-0003	8	Washer, Flat (#8)
17	818-0150	8	Rivet, Drive (5/32)
18	-	1	Duct, Rear (F173) (See Separate Page for Components)
19	-	1	Panel, Rear (See Separate Page for Components)

## Housing (F172, F173) (Begin Spec D)



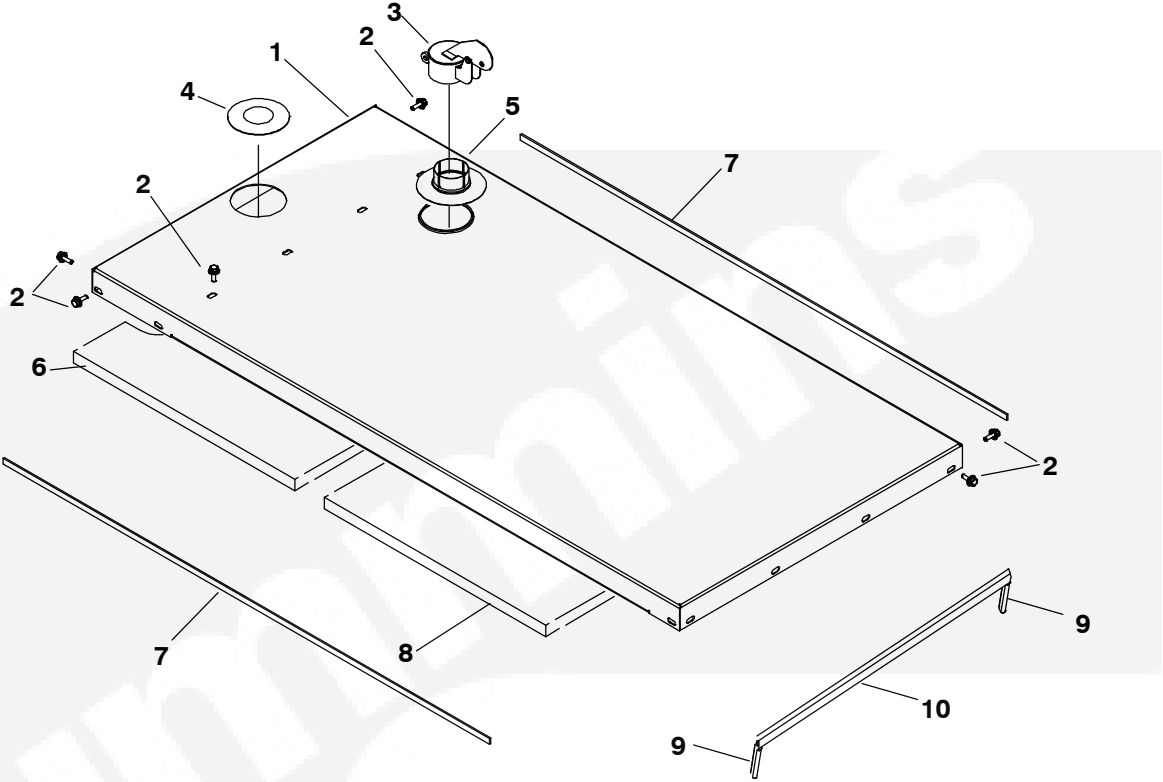
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Panel, Top (See Separate Page for Components)	6	517-0138-07	1	Plug, Hole
2	-	1	Duct, Front (F173) (See Separate Page for Components)	7	517-0138-08	4	Plug, Hole
3	184-0217	2	Panel, Door	8	184-0314	4	Washer, Rubber (3/8" I.D.)
4	184-0248	2	Insulation, Door Panel	9	186-6611	4	Latch
5	186-7162	1	Seal, Sound (4.6')	10	-	1	Duct, Rear (F173) (See Separate Page for Components)
				11	-	1	Panel, Rear (See Separate Page for Components)

# Housing - Top Panel (F172, F173) (Spec B - C)



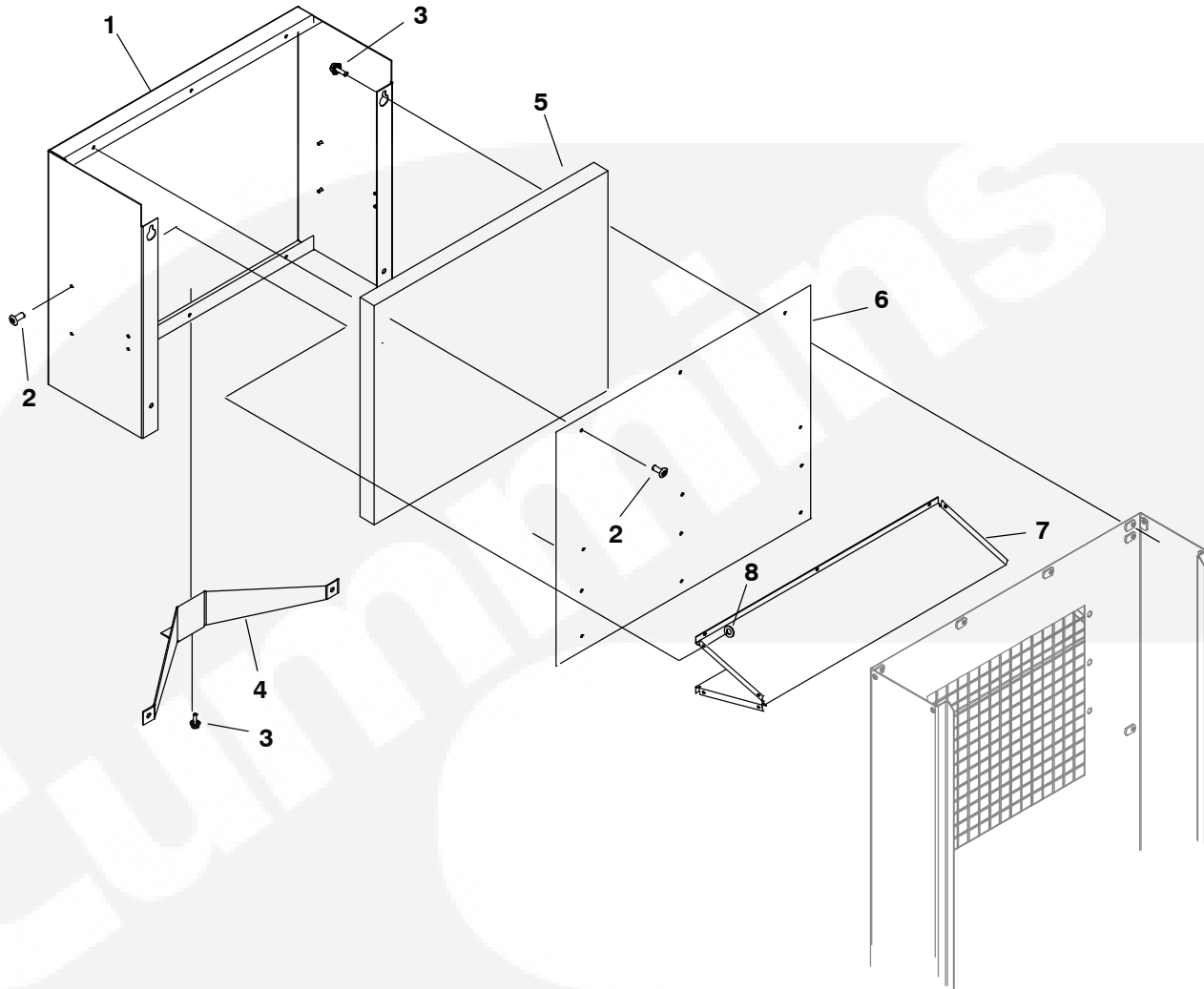
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6892	1	Panel, Top GNAA	9	818-0231-02	10	Rivet, Pop Type I, II Control (Mnl/Rmt)
	186-6893	1	GNAB, GNAC		818-0231-02	4	Type III Control (Detector)
2	821-6007-02	18	Screw, Hex Head Sems (M8 x 1.25 x 20mm)	10	186-7156	1	Insulation (Used With Manual/Remote Controls Only - Type I, II)
3	186-6634	1	Cap, Rain	11	186-7152	3	Support, Insulation (Used With Manual/Remote Controls Only - Type I, Type II)
4	186-6640	1	Button, Plug (4")	12	186-7163-02	1	Seal, Sound (38mm) (F173)
5	186-7147	1	Shield, Rain	13	186-7163-04	1	Seal, Sound (707mm) (F173)
6	186-7155	1	Insulation, Front Top				
7	186-7151	1	Support, Insulation				
8	186-7162-02	2	Gasket (1231mm)				

# Housing - Top Panel (F172, F173) (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0223	1	Panel, Top	5	186-7148	1	Shield, Rain (62mm I.D.)
	184-0224	1	GNAB, GNAC	6	184-0250	1	Insulation, Front Top
2	821-6007-02	18	Screw, Hex Head Sems (M8 x 1.25 x 20mm)	7	186-7162-02	2	Gasket (1231mm)
3	186-7062	1	Cap, Rain(2-1/4 to 2-7/16" I.D.)	8	184-0249	1	Insulation, Rear Top
4	186-6640	1	Button, Plug (4")	9	186-7163-02	1	Seal, Sound (38mm) (F173)
				10	186-7163-04	1	Seal, Sound (707mm) (F173)

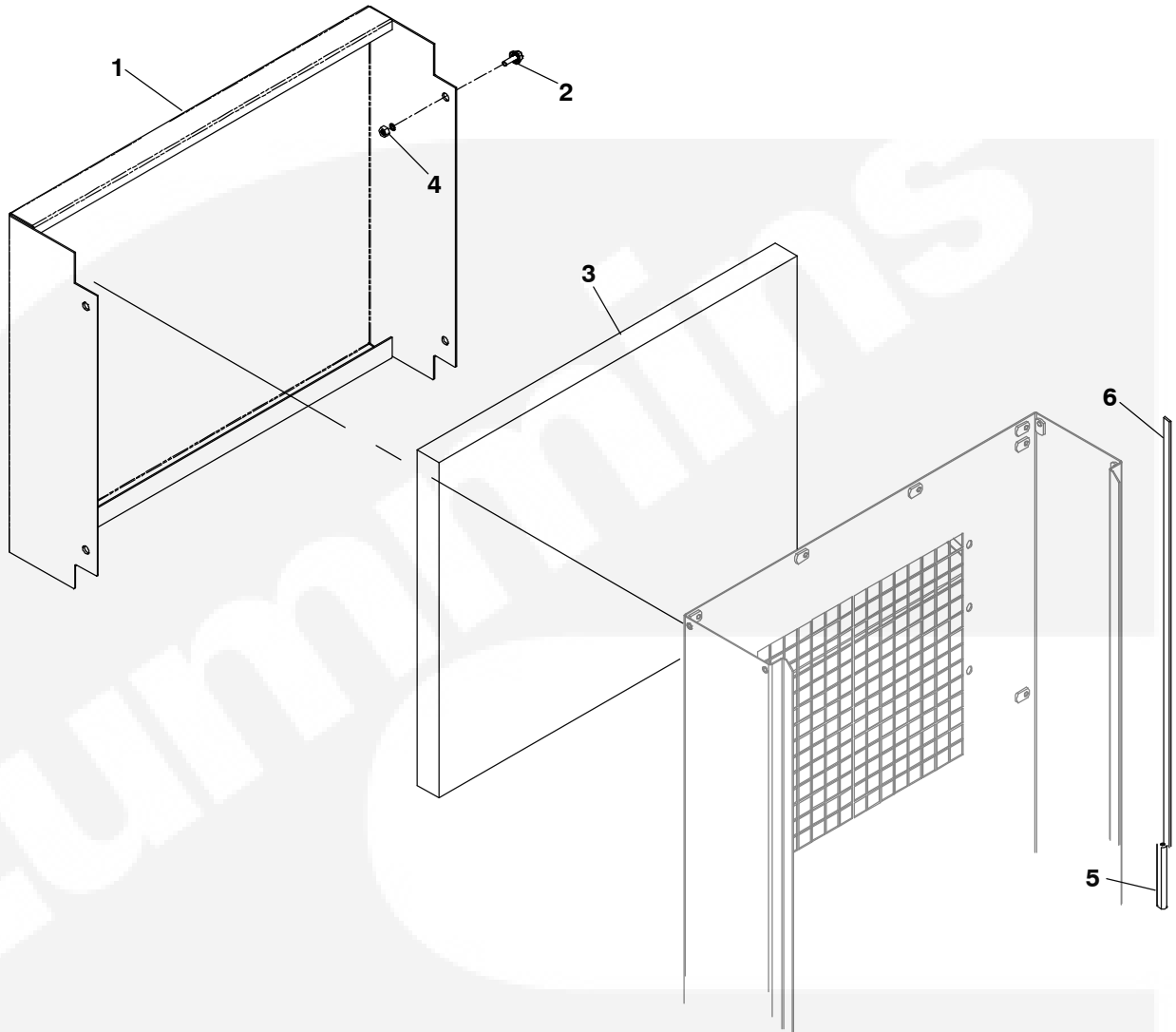
## Housing - Front Duct (F173) (Spec B - C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7100	1	Duct, Front GNAA, GNAB
	186-7158	1	GNAC
2	818-0231-01	6	Rivet, Pop GNAA, GNAB
	818-0231-01	20	GNAC
3	821-6007-02	5	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
4	186-7119-02	1	Strut, Duct GNAA, GNAB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	186-7119-04	1	GNAC
5	186-7122	1	Insulation, Duct
6	186-7149	1	Support, Insulation (Front)
7	186-7153	1	Baffle, Front Duct GNAC
8	186-7054	14	Washer, Plain (#10)GNAC

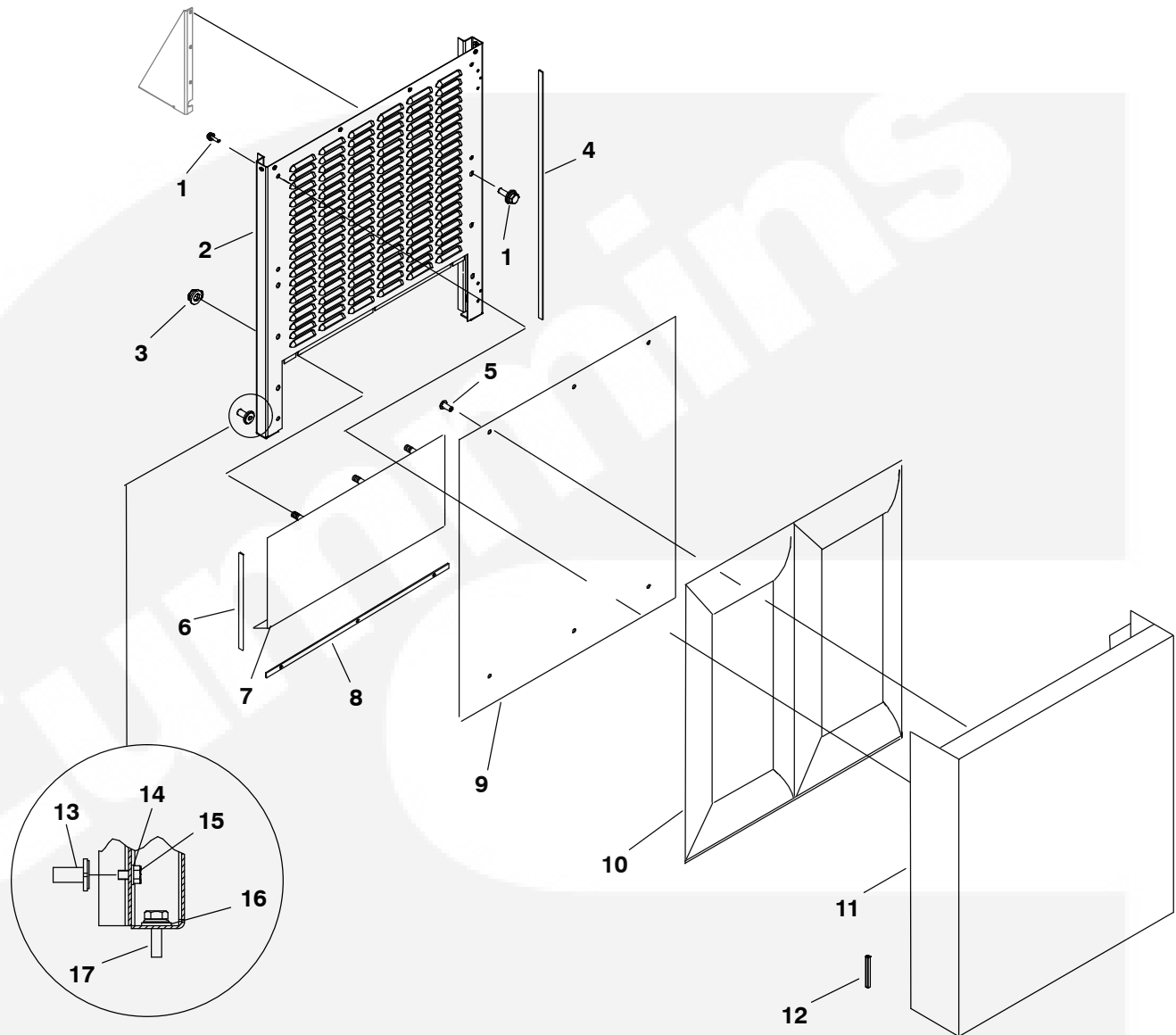
## Housing - Front Duct (F173) (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0215	1	Duct, Front GNAA
	184-0213	1	GNAB, GNAC
2	821-6007-02	18	Screw, Hex Head Sems (M8 x 1.25 x 20mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	184-0247	1	Insulation, Front Duct
4	186-6975	2	Washer, Flat (M8)
5	186-7163	.6'	Seal, Sound
6	186-7162	4.6'	Gasket

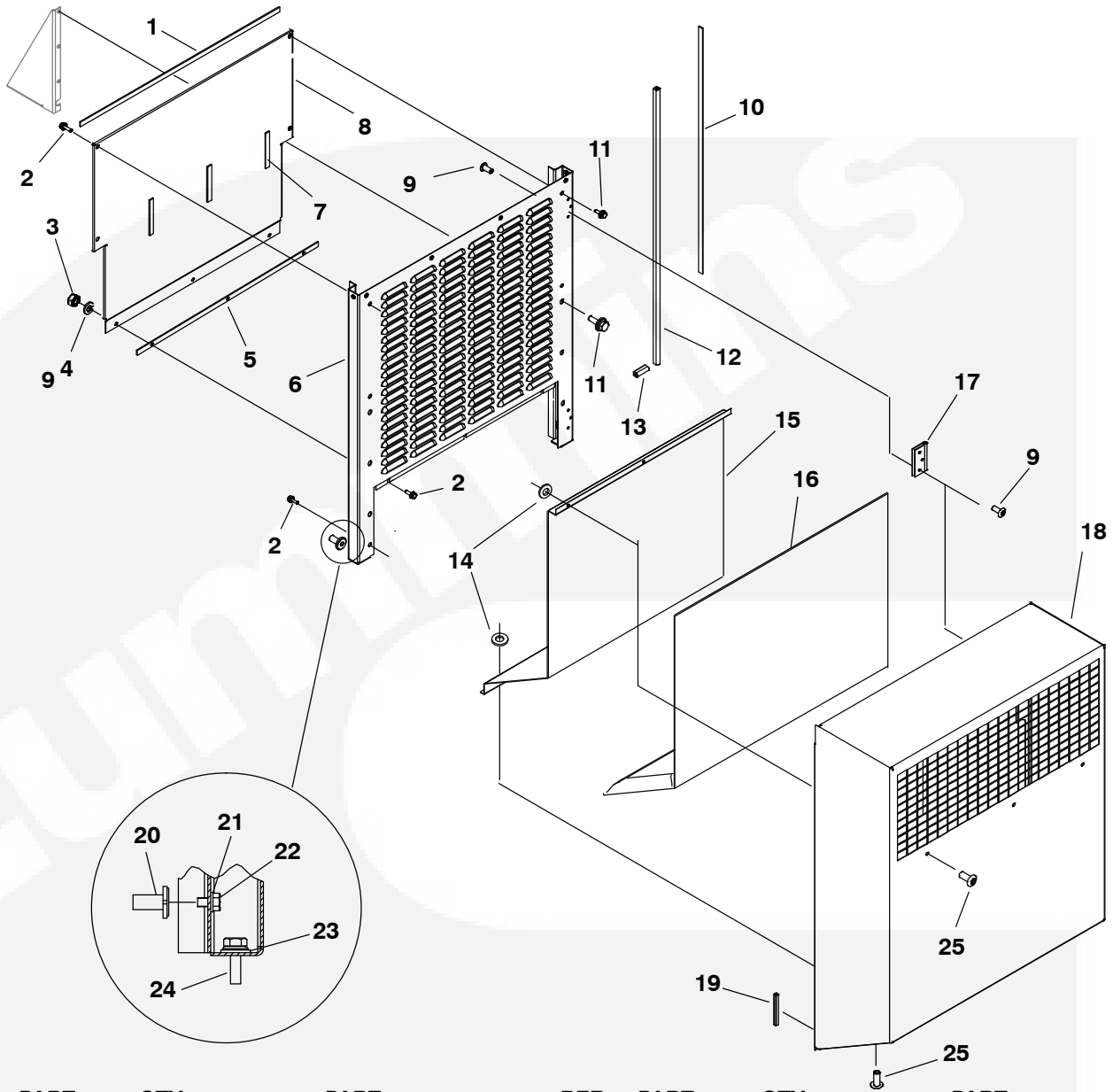
# **Housing - Rear Panel (F172) (F173 GNAA, GNAB) (Spec B – C)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Screw, Hex Head Sems (M8 x 1.25 x 20mm)
	821-6007-02	6	F172 Housing
	821-6007-02	8	F173 Housing
2	186-6899	1	Panel, Rear
3	140-2761	3	Knob, Air Cleaner
4	186-7162-01	2	Gasket (622mm)
5	818-0231-01	6	Rivet, Pop (F173)
6	186-7162-03	2	Gasket (660mm)
7			Cover, Battery F172
	186-6896	1	GNAA, GNAB
	186-7116	1	GNAC
	186-6896	1	F173 GNAA, GNAB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	186-7162-06	2	Gasket (606mm)
9	186-7150	1	Support, Rear Insulation (F173)
10	186-7156	1	Insulation, Rear Duct (F173)
11	186-7101	1	Duct, Rear (F173)
12	186-7163-03	2	Seal, Sound (125mm)
13	870-0258	4	Rivet, Pivot Block
14	186-6974	4	Washer, Flat (M6)
15	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2")
16	186-6975	2	Washer, Flat (M8)
17	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)

## Housing - Rear Panel (F173 GNAC) (Spec B - C)

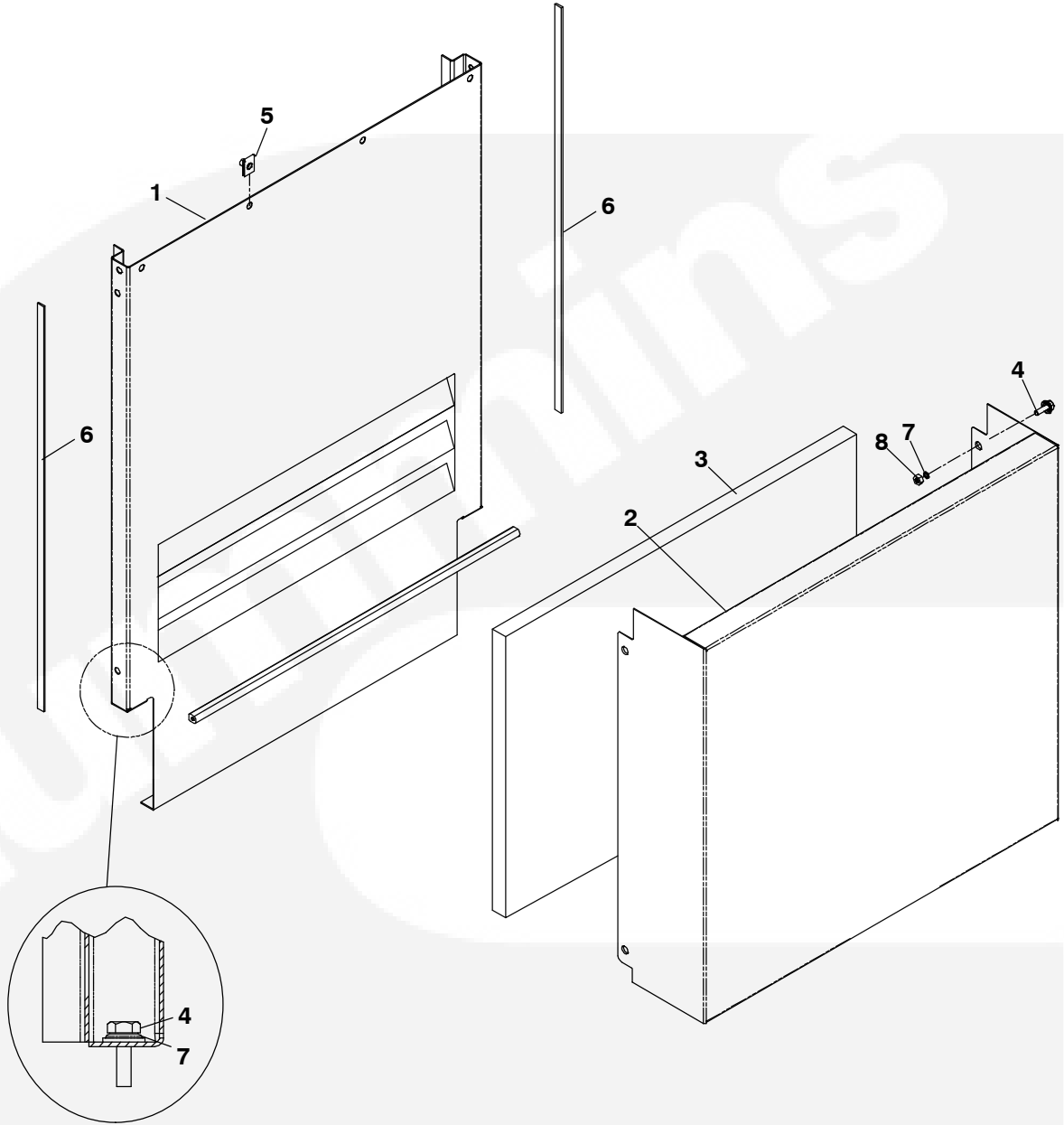


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7162-07	1	Gasket (660mm)
2	186-6546	6	Screw, Hex Head Cap (M6 x 1 x 30mm)
3	186-6235	3	Nut, Hex (M6 x 1)
4	186-6597	3	Washer, Split Lock (M6)
5	186-7162-06	1	Gasket (606mm)
6	186-6899	1	Panel, Rear
7	186-7162-04	3	Gasket (101mm)
8	186-7159	1	Panel, Rear
9	818-0231-02	16	Rivet, Pop
10	186-7162-01	2	Gasket (622mm)
11	821-6007-02	8	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
12	186-7163-01	1	Seal, Sound (788mm)
13	186-7163-02	1	Seal, Sound (38mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	186-7054	6	Washer, Plain (M10)
15	186-7112	1	Support, Insulation
16	186-7111	1	Insulation, Rear Duct
17	406-0831	2	Hinge
18	186-7115	1	Duct, Rear
19	186-7163-03	2	Seal, Sound (125mm)
20	870-0258	4	Rivet, Pivot Block
21	186-6974	4	Washer, Flat (M6)
22	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2")
23	186-6975	2	Washer, Flat (M8)
24	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
25	818-0231-01	6	Rivet, Pop (F173)



## Housing - Rear Panel (F172) (F173) (Begin Spec D)



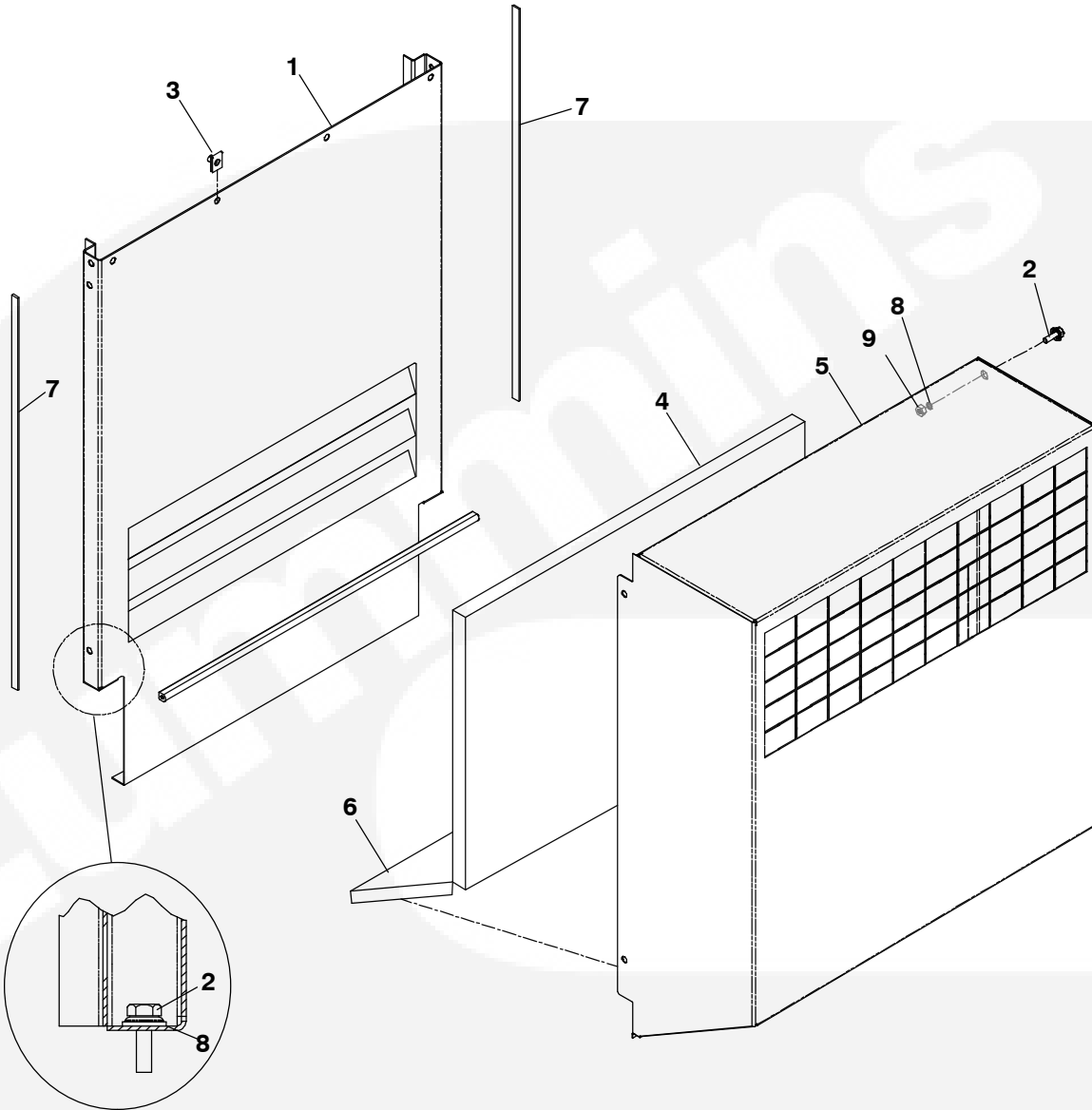
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0211	1	Panel, Rear
2	184-0212	1	Duct, Rear
3	184-0256	1	Insulation, Rear Duct GNAA and GNAB
4	821-6007-02	4	Screw, Hex Head Sems (M8 x 1.25 x 20mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	184-0326	1	Nut-U (M8 x 1.25mm)
6	186-7162	1	Gasket (5')
7	184-0325	18	Washer, Nylon Flat (M8)
8	186-6975	2	Washer, Flat (M8)

**“Blank Page”**



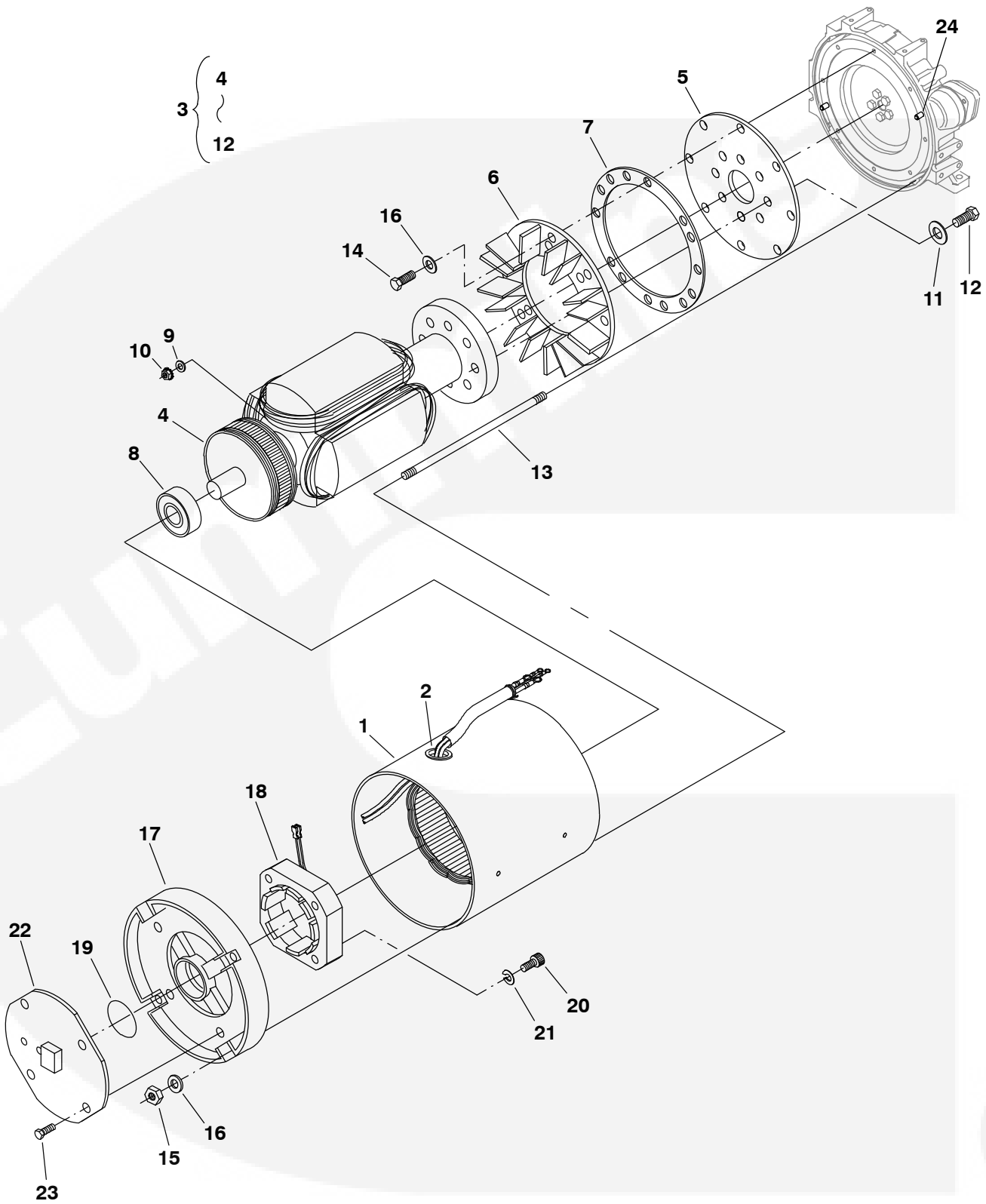
## Housing - Rear Panel (F173) (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0211	1	Panel, Rear
2	821-6007-02	8	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
3	184-0326	8	Nut, U (M8 x 1.25)
4	184-0251	1	Insulation, Rear Duct

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	184-0214	1	Duct, Rear (GNAB and GNAC)
6	184-0266	1	Insulation, Rear Duct
7	186-7162	1	Gasket (5.0')
8	184-0325	18	Washer, Nylon Flat (M8)
9	186-6975	2	Washer, Flat (M8)

Generator



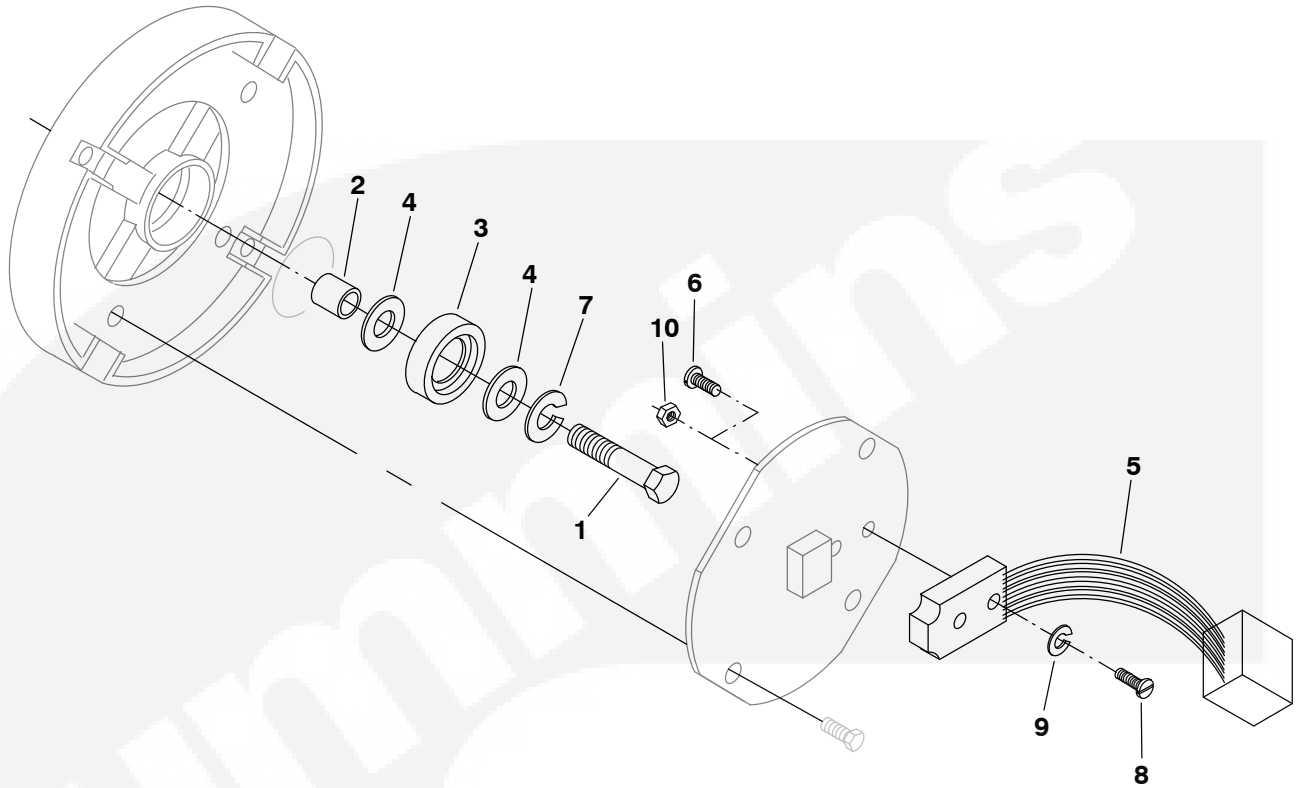
## Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator (Includes Grommet)	6	205-0229-02	1	*Fan, Generator
			Single Phase	7	232-3727-02	1	*Spacer, Drive Disc
	220-4524-02	1	GNAA	8	510-0173	1	*Bearing, Ball
	220-4524-03	1	GNAB	9	526-0399-11	2	*Washer, Flat (#10)
	220-4524-04	1	GNAC	10	870-0131-01	2	*Nut, ET Hex (#10)
			Three Phase	11	526-0399-73	6	*Washer, Flat (M12)
			Up to 480V	12	800-3017-52	6	*Bolt, Hex Head Cap (M12 x 1.75 x 20mm)
			Standard Stack				Stud
	220-4525-02	1	GNAA	13			Extended Stack
	220-4525-03	1	GNAB				GNAA
	220-4525-04	1	GNAC		520-1004-03	4	GNAB
			Extended Stack		520-1004-04	4	GNAC
	220-4525-03	1	GNAA		520-1004-06	4	Standard Stack
	220-4525-04	1	GNAB				GNAA
	220-4525-06	1	GNAC		520-1004-02	4	GNAB
			+ 600V (Standard Stack)		520-1004-03	4	GNAC
	220-4529-02	1	GNAA		520-1004-04	4	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
	220-4529-03	1	GNAB	14	800-3017-38	8	Nut, Hex (3/8-16)
	220-4529-04	1	GNAC				Washer, Flat (7/8")
2	508-0183	1	Grommet	15	862-0026-07	4	Endbell
3			Rotor Assy (Includes Parts Marked *)	16	526-0399-42	12	Stator, Exciter
			Single Phase	17	211-0464	1	O'Ring, Seal
			GNAA	18	220-4413-03	1	Screw (1/4-20)
	201-3556-02	1	GNAB	19	509-0143	1	Washer, Lock (1/4")
	201-3556-03	1	GNAC	20	802-0038	1	Cover, Inlet
	201-3556-04	1	Three Phase	21	850-0114-05	2	Screw, Lock Head Flange (3/16-24 x .38")
			Standard Stack (B256)	22	234-0957-02	4	Pin, Dowel
			GNAA	23	821-0001-01	4	
	201-3556-02	1	GNAB	24	186-6498	2	
	201-3556-03	1	GNAC				
	201-3556-04	1	Extended Stack (B268)				
			GNAA				
	201-3556-03	1	GNAB				
	201-3556-04	1	GNAC				
	201-3556-06	1					
4	201-3515-01	1	*Rotor, Exciter				
5	232-3953-03	1	*Disc, Drive				

\* - Parts Included in Rotor Assy.

+ - Extended Stack Not Available in 600V

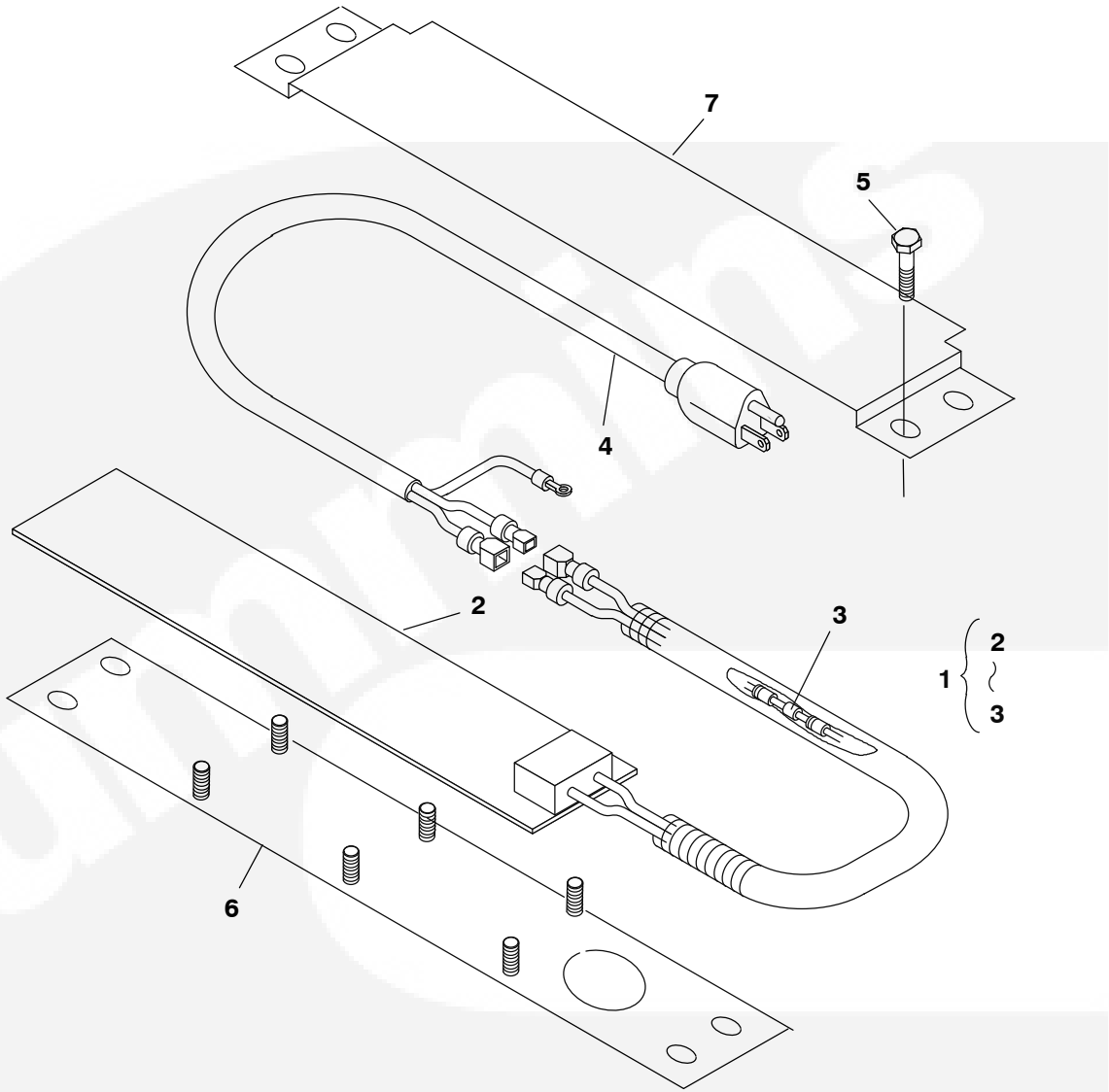
## Overspeed Detector Spec A-C



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0515	1	Screw, Hex Head Cap (3/8-16 x 1-3/4)
2	191-2131	1	Spacer
3	166-0767	1	Rotor, Ignition
4	526-0124	2	Washer, Flat (3/8')
5	300-4324	1	PCB Assy, Overspeed
6	815-0849	2	Screw, IT Cross Recessed (#6-32 x 3/4")

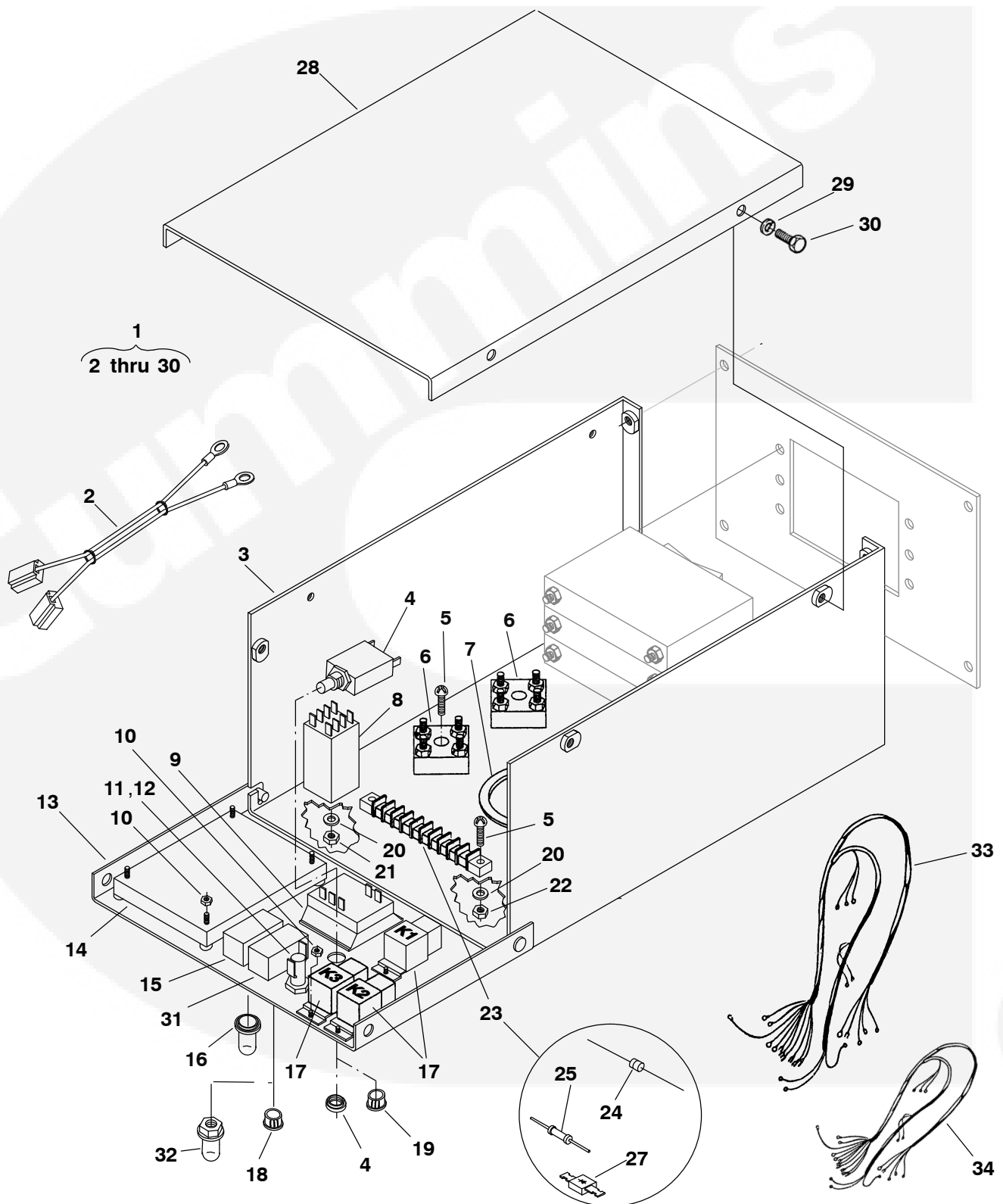
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	850-0050	1	Washer, Lock (3/8")
8	815-0865-13	2	Screw, Pan Head Machine (M4 x .7 x 45mm)
9	850-2004	2	Washer, Lock (M4)
10	860-2005	2	Nut, Hex (M4 x .7)

## Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assy, Generator (Includes Heater and Splice)	3	332-1789	2	Splice, Window (18 Gauge)
	300-5137-01	1	120V	4	335-0110	1	Cable, Control Heater
	300-5137-02	1	208/240V	5	815-0578	4	Screw, Hex Washer Head (M6 x 1 x 12.7)
2			Heater, Control (120V)	6	232-3832	1	Plate, Heater Mounting
	333-0550-01	1	120V	7	232-3828	1	Cover, Heater
	333-0550-02	1	208/240V				

**Control  
Manual (Type I)  
Remote (Type II)  
(Spec A)**





**Control  
Manual (Type I)  
Remote (Type II)  
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box Assy, Control (Includes Parts Marked *)	19	186-6357	1	*Plug, Plastic (Manual)
	186-6360	1	Manual	20			*Washer (#6)
	186-6363	1	Remote		186-6663	4	Manual
2	186-6341	1	*Harness, Voltage Sensing		186-6663	5	Remote
3	186-6310	1	*Box, Control	21	186-6832	1	*Nut (6/32) (Remote)
4	320-1139	1	*Breaker, Circuit (DC) (Remote (Includes Mounting Hardware 3/8-32 Thread)	22			*Nut (M4)
					186-6831	4	Manual
					186-6831	8	Remote
5	186-6652	4	*Screw, Fillister Head Machine (M4 x .7 x 16mm)	23	186-6356	1	*Block, DC Terminal
				24	186-6859	1	*Diode Assy, Zener (3.6V, 5W) (Remote)
6	332-3249	2	*Block, AC Terminal	25	186-6861	1	*Resistor Assy, Metal Oxide (Remote)
7	186-6359	1	*Grommet				
8	186-6833	1	*Relay (Remote)	26	186-6834	1	*Washer (9mm) (Remote)
9	307-2871	1	*Timer, Control Unit (Remote)	27	186-6860	2	*Diode Assy (Manual)
10			*Nut, Lock (M5)	28	186-6349	1	*Cover, Control Box
	186-6912	6	Manual	29	186-6617	10	*Washer, Flat Spring (M6)
	186-6912	7	Remote	30	186-6621	10	*Screw, Hex Head Cap (M6 x 10mm)
11	321-0175	1	*Holder, Fuse				
12	321-0253	1	*Fuse	31	186-6388	1	+ Switch, Off/On Toggle
13	186-6347	1	*Panel, Control	32	186-6298	1	+ Seal, Switch
14	305-0844	1	*Regulator, Voltage	33	186-6331	1	Harness, Engine
15			*Switch, On/Off/Start	34			*Harness, Panel
	186-6354	1	Manual		186-6382	1	Manual
	186-6362	1	Remote		186-6383	1	Remote
16	186-6298	1	*Boot, On/Off/Start Switch				
17			*Relay, Fault				
	307-2817-01	1	Manual				
	307-2817-01	3	Remote				
18	186-6358	1	*Plug, Plastic (Preheat)				

\* - Parts Included in Control Box Assy.

+ - Parts Included in Manual Preheat Kit Listed on Preheat Kit Page.

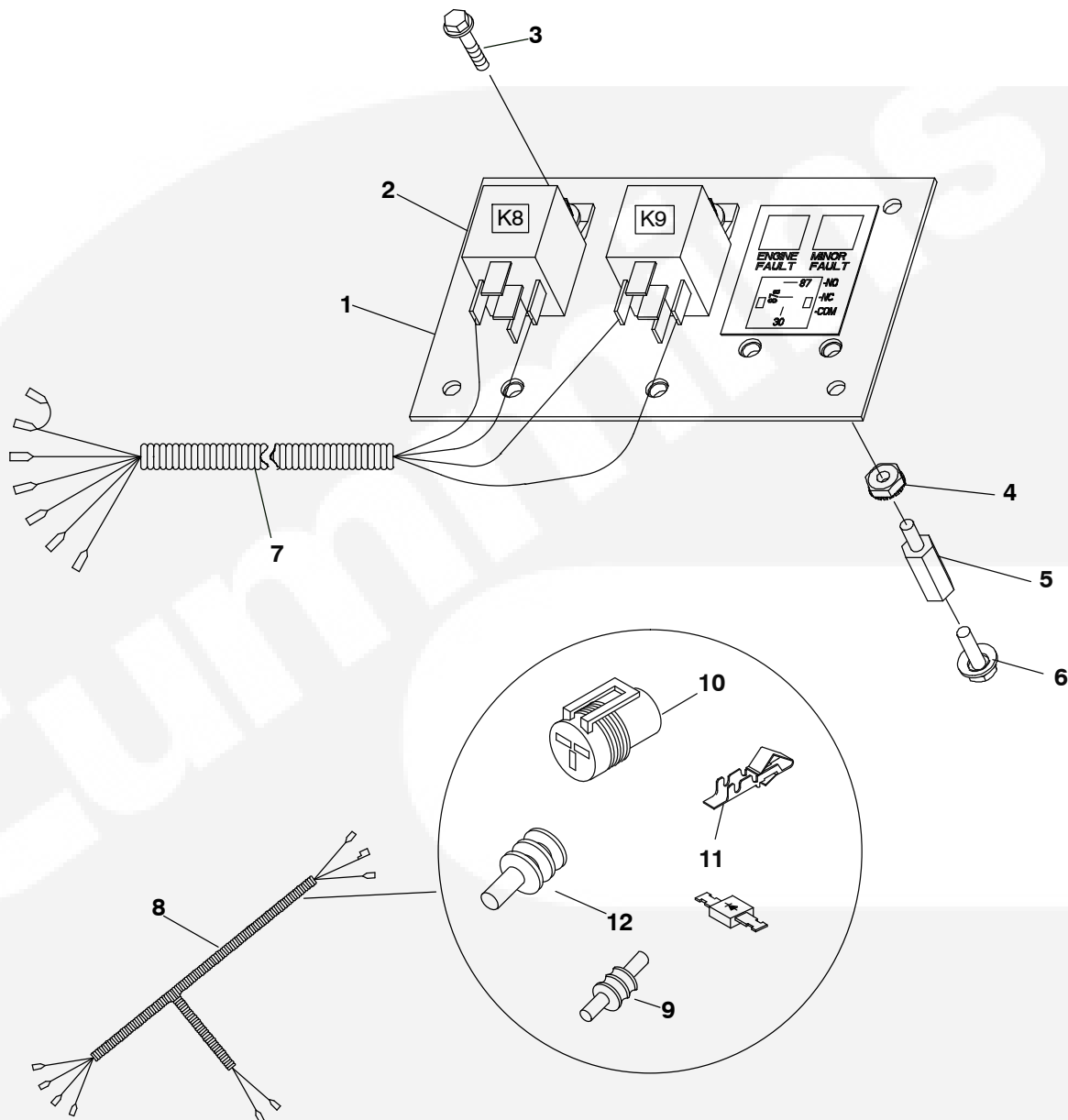


**Control**  
**Manual (Type I)**  
**Remote (Type II)**  
**(Spec B – C)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3321	1	Box, Control	18	302-2002	1	Meter, Hour (Remote Only)
2			Screw (M4 x .7 x 20mm)	19			Switch, On/Off/Start (S12)
	815-0925-01	2	Manual		308-1086	1	Manual
	815-0925-01	4	Remote		308-1011	1	Remote
3	307-2677-03	1	Relay (Remote)	20	319-3322	1	Panel, Control
4	821-6001-03	2	Screw, Hex Head Sems (M4 x .8 x 16mm)	21	305-0982	1	Regulator, Voltage (VR21)
5	332-3249	2	Block, AC Terminal	22	320-1824-02	1	Breaker, Circuit (DC) (Remote Only) (Includes Mounting Hardware 3/8-32 Thread)
6	508-1127	1	Bushing, Nylon	23	319-3326	1	Cover, Control Box
7	307-2871	1	Timer, Control Unit (Remote)	24	821-6002-03	6	Screw, Hex Head Sems (M6 x 1 x 16mm)
8			Nut, Nylon Lock (M4)	25	338-3735	1	Harness, Engine (Includes Diode, Zener, and Resistor)
	870-2064-01	5	Manual	26	357-0030	1	#Diode (CR2)
	870-2064-01	12	Remote	27	359-0115	1	Zener (3.6V, 5@) (CR1)
9	332-3564	1	#Block, DC Terminal	28	350-0980	1	Resistor (510O, 2W, 5%)
10	332-3573	1	Strip, Marker	29			Harness, Control (Includes Parts Marked #)
11	860-2057	1	Nut, Hex (M6)		338-3738	1	Manual
12	856-0006	1	Washer, EIT Lock (1/4")		338-3732	1	Remote
13			#Relay, Fault (K14)				
	307-2817-01	1	Manual				
	307-2817-01	4	Remote				
14	517-0131	1	Plug, Plastic (Manual Only)				
15	517-0133	1	Plug, Plastic				
16	321-0175	1	Holder, Fuse				
17	321-0353	1	Fuse (20A) (F1)				

# – Parts Included in Control Harness.

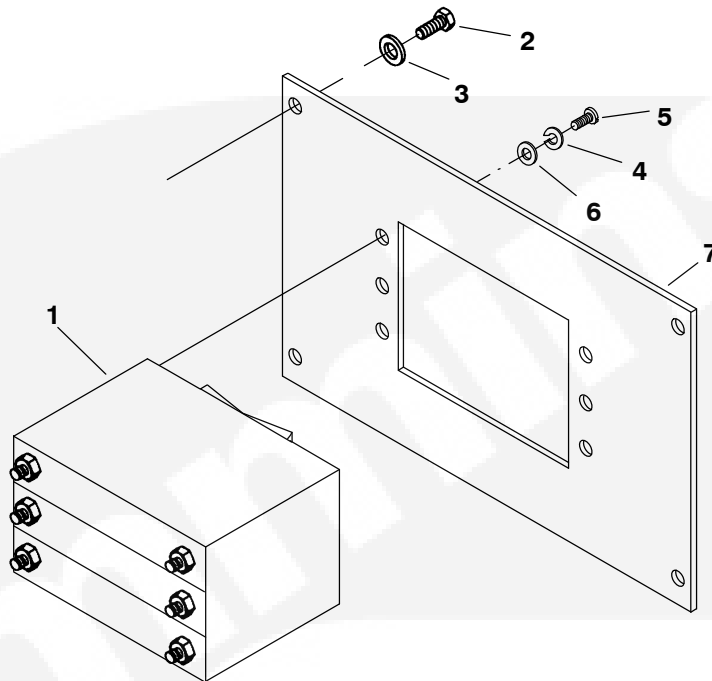
# **Aux Relay Board (Manual/Remote Control) (Spec B – C)**



r5REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3601-02	1	Panel, Relay	8	338-3743	1	Harness, Dry Contact (Includes Parts Marked)
2	307-2817-01	2	Relay (K8, K9) (12V)	9	323-1712	AR	*Plug, Cavity
3	821-6001-02	2	Screw, Hex Head Sem (M5 x 0.8 x 12mm)	10	323-1765	1	*Housing, Connector (4 Pin)
4	870-0131	4	Nut, ET Sems	11	323-1709	AR	*Terminal, Socket
5	870-2204	4	Standoff, Male/Female Hex (#10-32)	12	323-1708	AR	*Seal, Cable
6	821-5000-05	4	Screw, Hex Head Sems				
7	338-3731	1	Harness, Control				

\* – Parts Included in Dry Contact Harness.

**Control Box Back Panel**  
**Manual (Type I) Remote (Type II)**  
**(Spec A)**

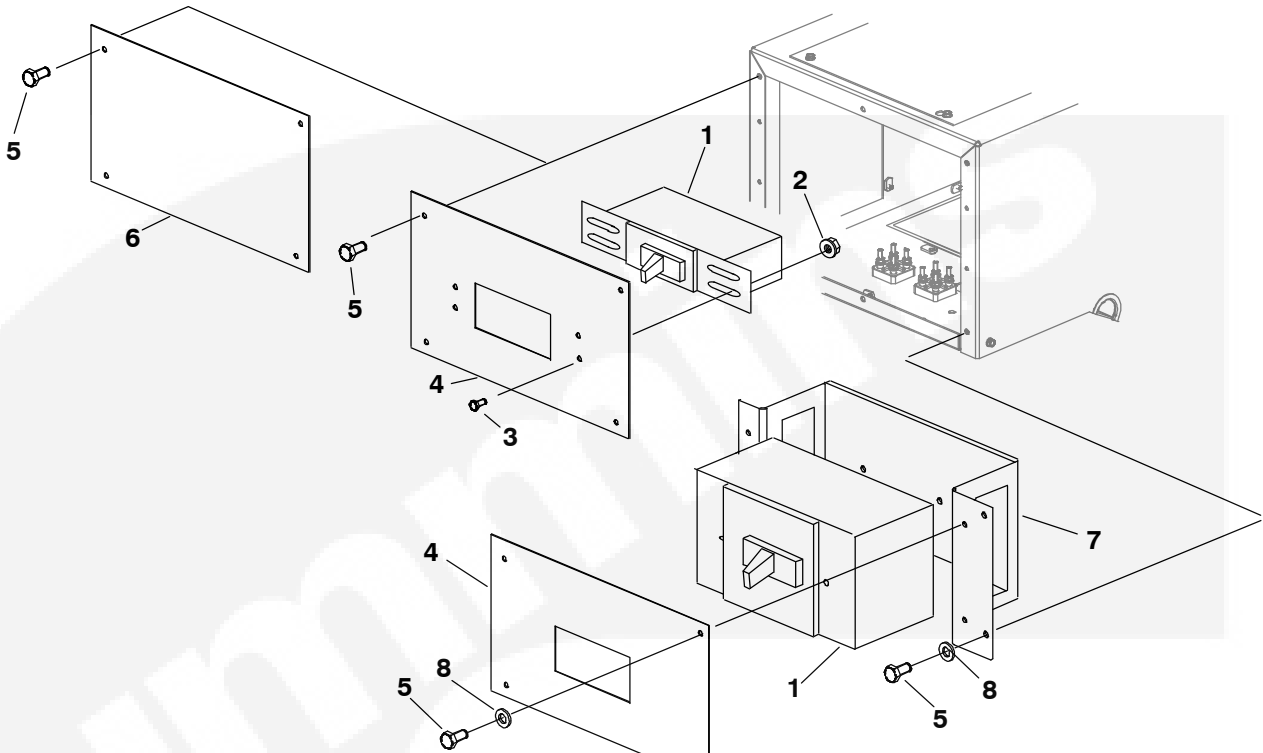


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit				
			2 Pole, 240V				
	320-1841-01	1	10A		320-1827-09	1	50A
	320-1841-02	1	15A		320-1827-10	1	55A
	320-1841-03	1	20A		320-1827-11	1	60A
	320-1841-04	1	25A		320-1827-12	1	65A
	320-1841-05	1	30A		320-1827-13	1	70A
	320-1841-06	1	35A		320-1827-14	1	75A
	320-1841-07	1	40A		320-1827-15	1	80A
	320-1841-08	1	45A		320-1827-16	1	85A
	320-1841-09	1	50A		320-1827-17	1	90A
	320-1841-10	1	55A		320-1827-18	1	95A
	320-1841-11	1	60A		320-1827-19	1	100A
	320-1841-12	1	65A				600V
	320-1841-13	1	70A		320-1851-03	1	20A
	320-1841-14	1	75A		320-1851-04	1	25A
	320-1841-15	1	80A		320-1851-05	1	30A
	320-1841-16	1	85A	2	186-6034	4	Screw (M6 x 1 x 20mm)
	320-1841-17	1	90A	3	186-6591	4	Washer, Flat (M6)
	320-1841-18	1	95A	4			Washer, Lock (#6)
	320-1841-19	1	100A		186-6428	4	2 Pole Circuit Breaker
			3 Pole		186-6428	6	3 Pole Circuit Breaker
			480V	5			Screw (#6-32 x 3/8")
	320-1827-01	1	10A		186-6488	4	2 Pole Circuit Breaker
	320-1827-02	1	15A		186-6488	6	3 Pole Circuit Breaker
	320-1827-03	1	20A	6			Washer, Flat (#6)
	320-1827-04	1	25A		186-6663	4	2 Pole Circuit Breaker
	320-1827-05	1	30A		186-6663	6	3 Pole Circuit Breaker
	320-1827-06	1	35A	7			Panel, Control Box Back
	320-1827-07	1	40A		186-6351	1	W/O Circuit Breaker Hole
	320-1827-08	1	45A				W/Circuit Breaker Hole
					186-6350	1	2 Pole Circuit Breaker
					186-6348	1	3 Pole Circuit Breaker

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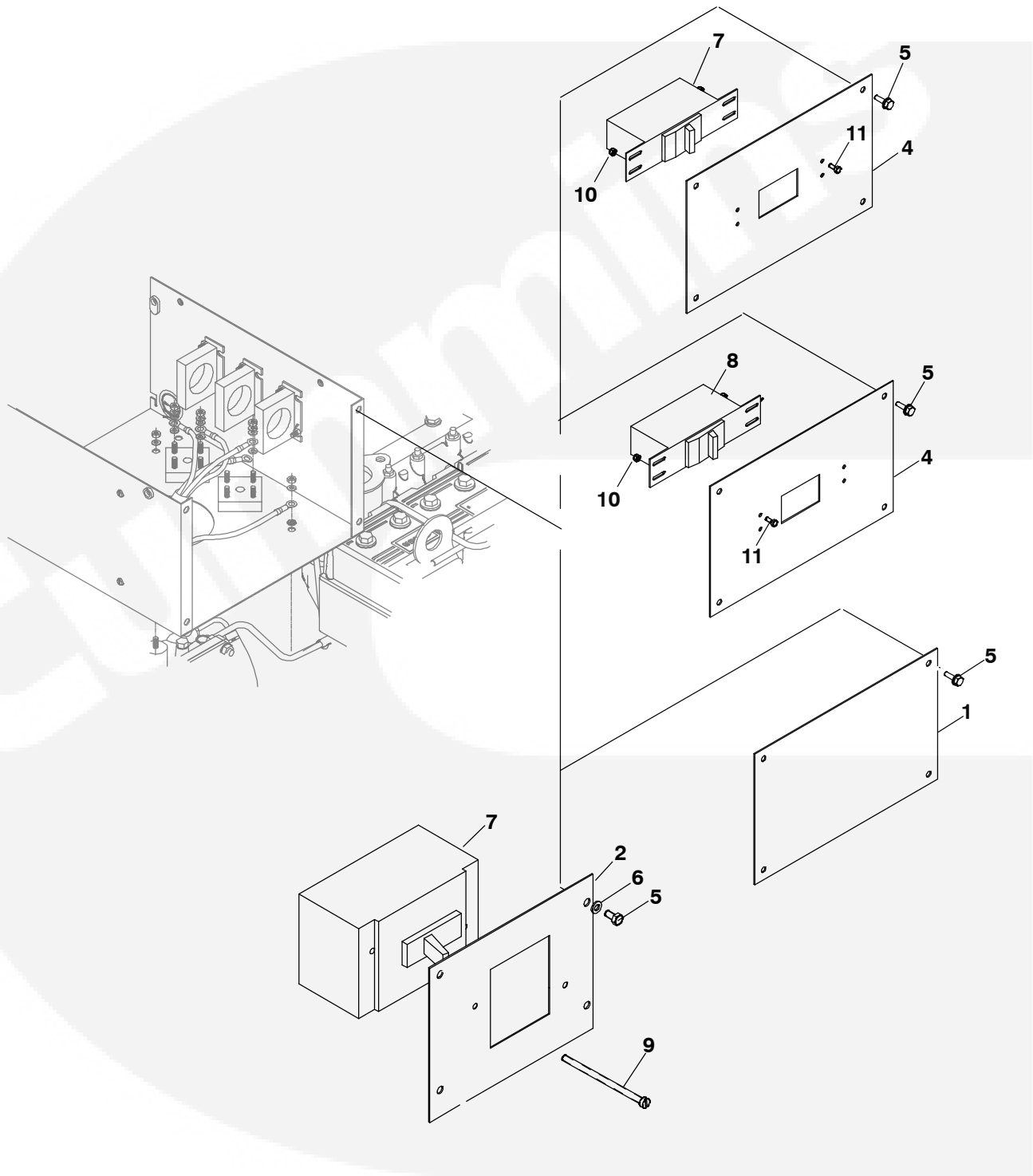


**Control Box Back Panel**  
**Manual (Type I) Remote (Type II)**  
**(Spec B – C)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit 2 Pole, 240V	320-1959-21	1	20A	
				320-1959-20	1	30A	
320-2005-11	1	10A		2	186-6831	4	Nut, Nylock (M4 x 0.7) (W/2 Pole Circuit Breaker)
320-2005-10	1	15A		3	186-7078	4	Screw, Hex Head Cap (M4 x 0.7 x 16mm) (W/2 Pole Circuit Breaker)
320-2005-09	1	20A		4			Panel, Control Box Back (W/Circuit Breaker Hole)
320-2005-08	1	25A			319-3323	1	2 Pole Circuit Breaker
320-2005-07	1	30A			319-3323	1	15-70A (All Sets)
320-2005-06	1	35A			319-3325	1	80-125A (DNAE, DNAF Only)(GNAC Only)
320-2005-05	1	40A					3 Pole Circuit Breaker
320-2005-04	1	45A			319-3824	1	480V Sets
320-2005-03	1	50A			319-3647	1	600V Sets
320-2005-02	1	60A		5			Screw, Hex Head Cap (M6 x 1 x 16mm)
320-2005-01	1	70A			186-6546	4	2 Pole CB (and W/O CB)
320-2006-04	1	80A			186-6546	8	3 Pole CB
320-2006-03	1	90A		6	319-3324	1	Panel, Control Box Back (W/O Circuit Breaker Hole)
320-2006-02	1	100A		7			Bracket, Circuit Breaker (W/3 Pole CB)
			3 Pole 480V		319-3823-02	1	480V Sets
320-2009-11	1	15A			319-3646-01	1	600V Sets
320-2009-10	1	20A		8	186-6974	8	Washer, Flat (M6) (W/3 Pole CB)
320-2009-09	1	30A					
320-2009-08	1	40A					
320-2009-06	1	50A					
320-2009-05	1	60A					
320-2009-04	1	70A					
320-2009-03	1	80A					
			600V				
320-1959-22	1	15A					

## Circuit Breaker Panel (Begin Spec D)





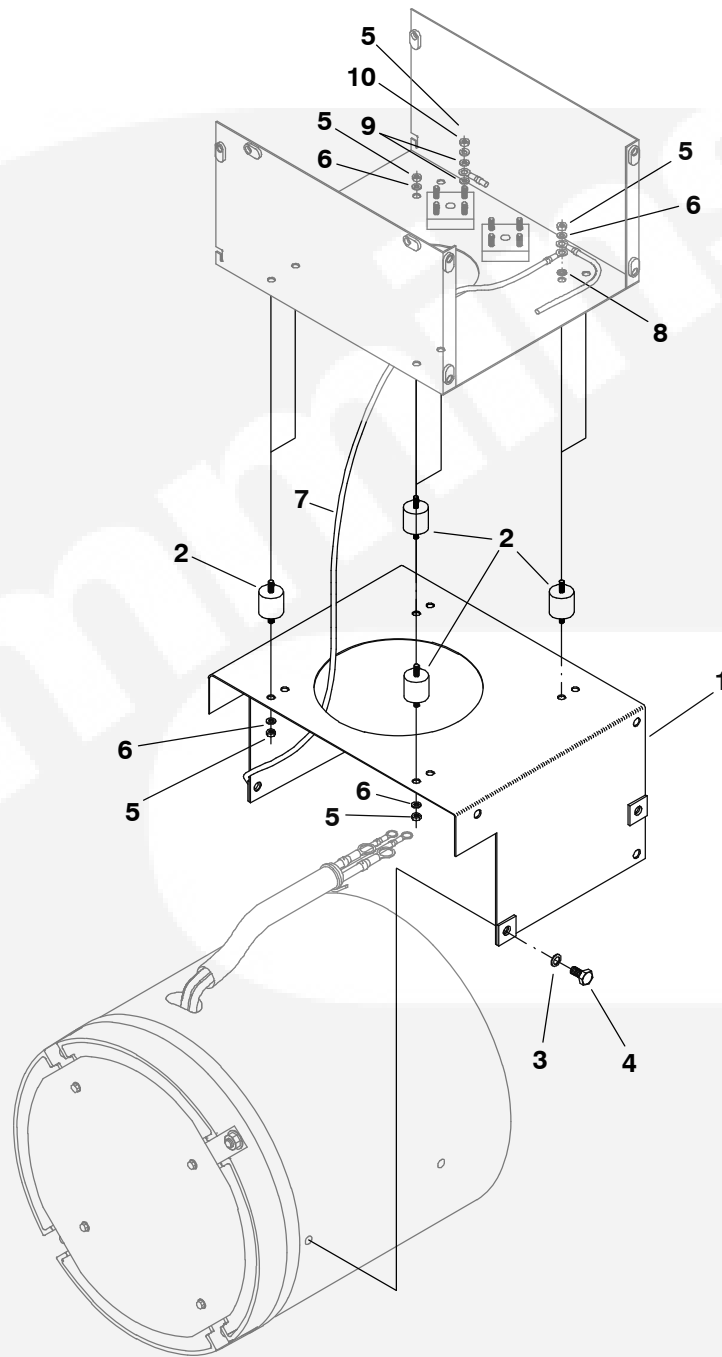
### Circuit Breaker Panel (Begin Spec D)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	184-0280	1	Assy Panel, Circuit Breaker 3Pole 480V (Includes Parts Marked *)	4	184-0204	1	#Panel, Circuit Breaker
	184-0279	1	3Pole 600V (Includes Parts Marked +)	5	186-6546	4	#%+* Screw, Hex Head Cap (M6 x 1.0 x 16mm)
	184-0277	1	2Pole 15-70A (Includes Parts Marked #)	6	186-6974	4	*+Washer, Flat M6
	184-0276	1	Panel, Blank (Includes Parts Marked %)	7	320-2009	1	*+Breaker, Circuit
				8	320-2005	1	#Breaker, Circuit
				9	184-0337	2	*+Screw (M4 x .7 x 80mm)
				10	186-6831	4	^#*+Nut, Nylon (M4 x .7mm)
				11	184-0316	4	#Screw, Hex Head Cap (M4 x .7 x 16mm)
1	184-0228	1	% Panel, Circuit Breaker				
2	184-0227	1	+ Panel, Circuit Breaker				
3	184-0226	1	*Panel, Circuit Breaker				

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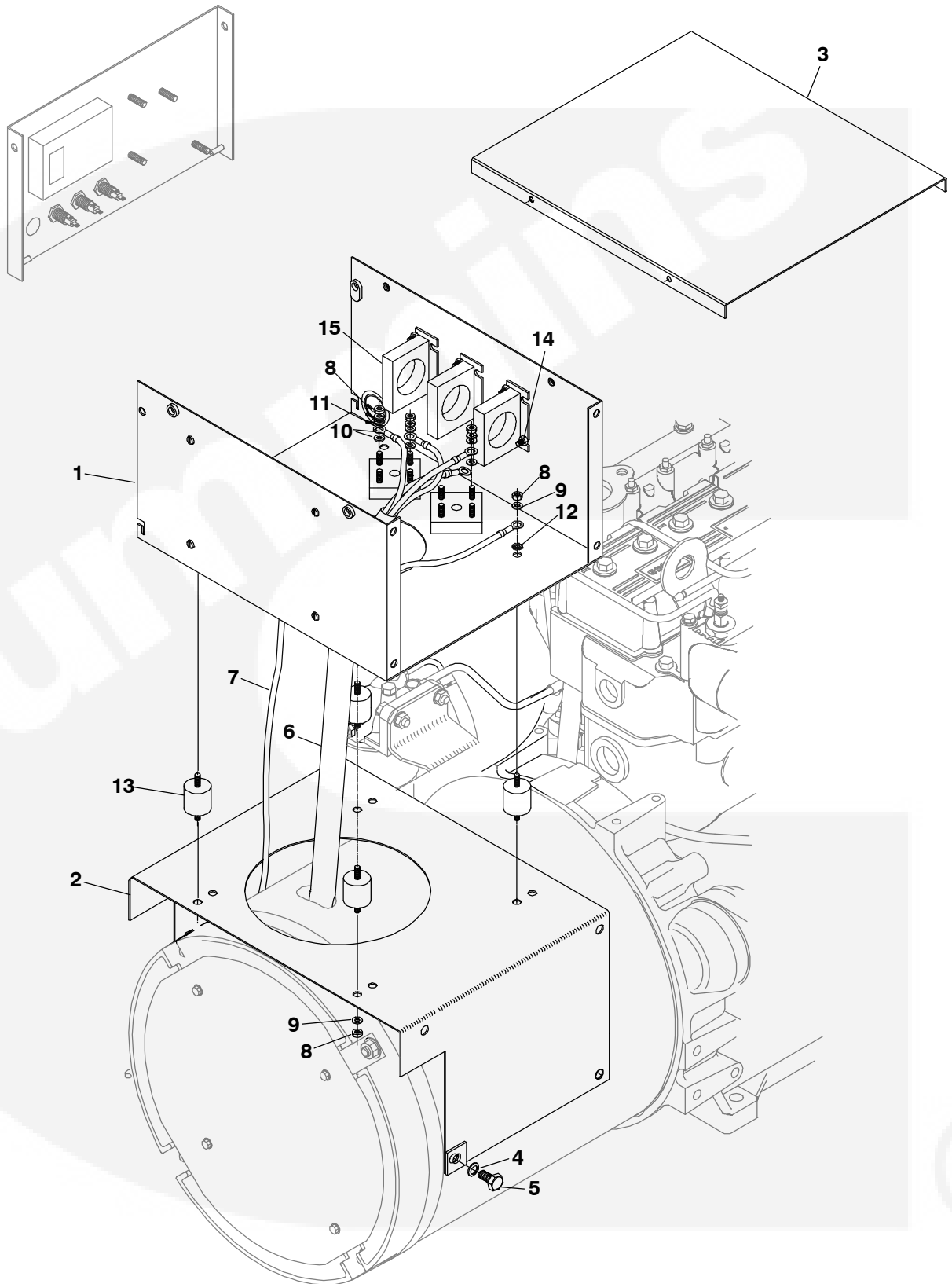


## Control Mount Manual (Type I) Remote (Type II)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6352	1	Saddle	5	186-6209	17	Nut, Hex (M6 x 1)
2	186-6311	4	Mount, Vibration	6	186-6617	16	Washer, Spring (M6)
	186-6979	4	2 Cylinder	7	186-6339	1	Strap, Ground
			3/4 Cylinder	8	186-6635	1	Washer, EIT (1/4")
3	186-6623	4	Washer, EIT (5/16")	9	186-6591	16	Washer, Flat (M6)
4	186-6622	4	Screw (M8 x 1.25 x 16mm)	10	186-6597	8	Washer, Lock (M6)

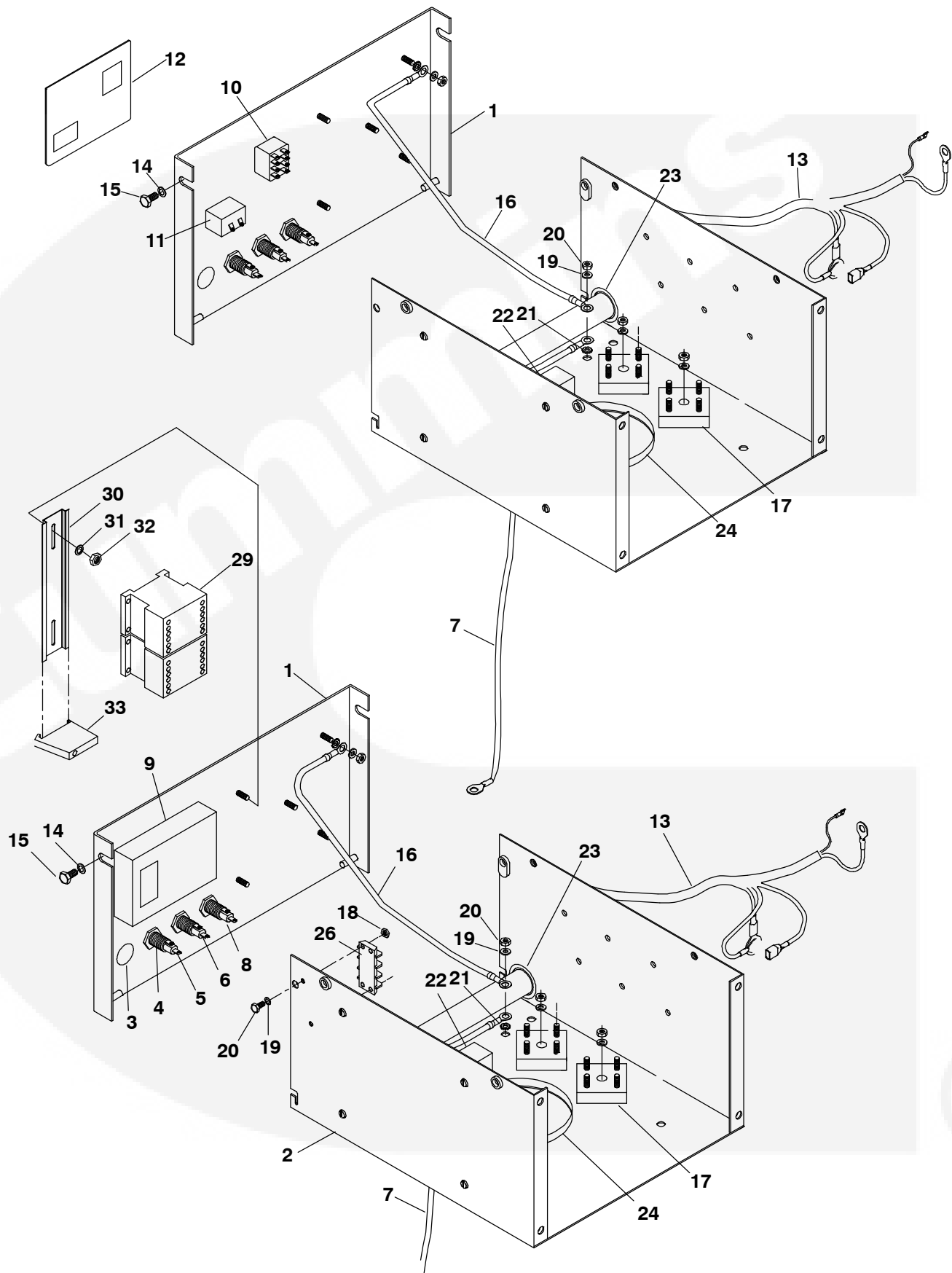
## Control (Begin Spec D)



### Control (Begin Spec D)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0231	1	Assy. Control (Includes Saddle and Box)	9	186-6597	16	Washer, Lock (M6)
2	184-0203	1	Saddle, Control Box	10	186-6974	20	Washer, Flat (M6)
3	184-0205	1	Cover, Control	11	186-6635	1	Washer, Tooth (1/4")
4	186-6623	4	Washer, Tooth (5/16")	12	853-2005	4	Washer, Star (M5)
5	186-6622	4	Screw, Hex Head (M8 x 1.25 x 16mm)	13	186-6979	4	Mounting, Vibration
6	898-1308	1	Sleeve, Insulation	14	186-6034	6	Screw, Hex Head Cap (M6 x 1.0 x 20mm)
7	186-6339	1	Cable, Ground	15	184-0332	3	Transformer, Current
8	186-6209	20	Nut, Hex (M6)				

**Control Assembly  
(Begin Spec D)**



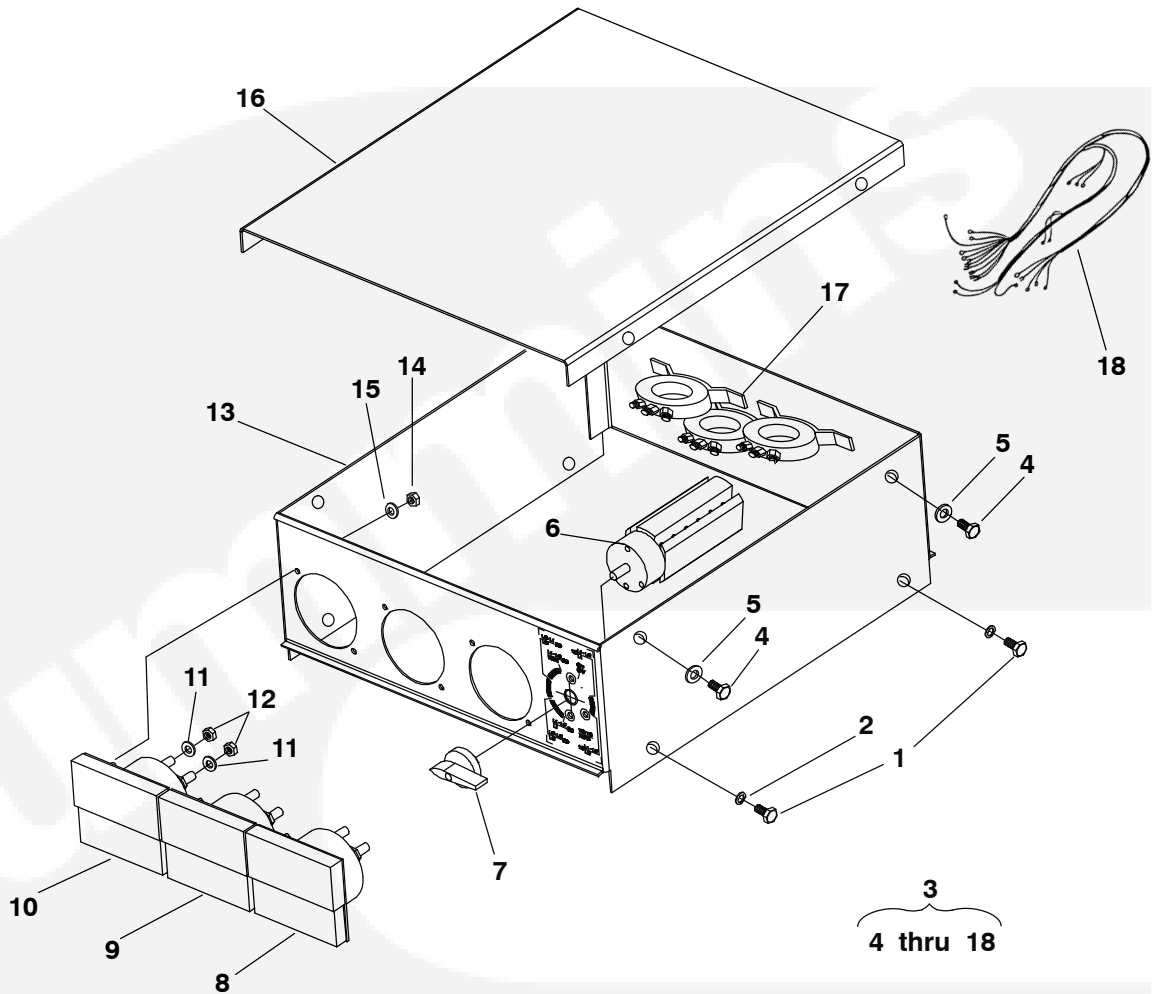
### Control Assembly (Begin Spec D)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	184-0231	1	Assy Panel, Display Control (Includes Parts Marked +)	16	332-3249	2	+*Blocks, Power Dist.
	184-0252	1	Assy Panel, Metered Control (Includes Parts Marked *)	17	186-6127	4	+*Screw, Hex Head Cap (M5 x 0.8 x 35mm)
1			Panel, Control	18	526-2060	12	+*Washer, Flat (M5)
	184-0201	1	+ Panel, Control	19	860-2006	8	+*Nut, Hex (M5)
	184-0201	1	*Panel, Control	20	853-2005	2	+*Washer, Star (M5)
2	184-0202	1	+*Cover, Control Box	21	327-1513-02	1	+*Board, PCC1301 Control
3	517-0138-09	1	+*Plug	22	184-0330	1	+*Bushing, Plastic
4	321-0175	3	+*Fuse, Holder	23	184-0312	1	+*Relay, 12VDC
5	321-0327-07	1	+*Fuse, 20A	24	332-0611	1	+*Block, Terminal (M12)
6	321-0327-06	1	+*Fuse, 15A	25	184-0331	1	+ Label, Ground Symbol
7	321-0327-05	1	+*Fuse, 10A	26	184-0307	1	+ Label, Information
8	300-5875	1	+ Control, Display Panel	27	307-2873	2	Relay, Control (12VDC)
9	308-1092	1	*Switch, Rocker	28	332-2878-02	1	Rail, Terminal
10	302-2002	1	*Hour, Meter	29	526-2060	2	Washer, Flat
11	98-8339	1	*Label, Information	30	860-2006	2	Nut, Hex (M5 x .8mm)
12	184-0207	1	+*Harness, Genset	31	332-2878	2	Bracket, End
13	186-6546	2	+*Screw, Hex Head Cap (M6 x 1.0 x 16)				
14	186-6974	2	+*Washer, Flat (M6)				
15	184-0328	1	+*Cable, Ground				

+ - Part Included in Assembly 184-0231

\* - Part Included in Assembly 184-0252

# **Meter Panel** **Manual (Type I) Remote (Type II)** **(Spec A)**

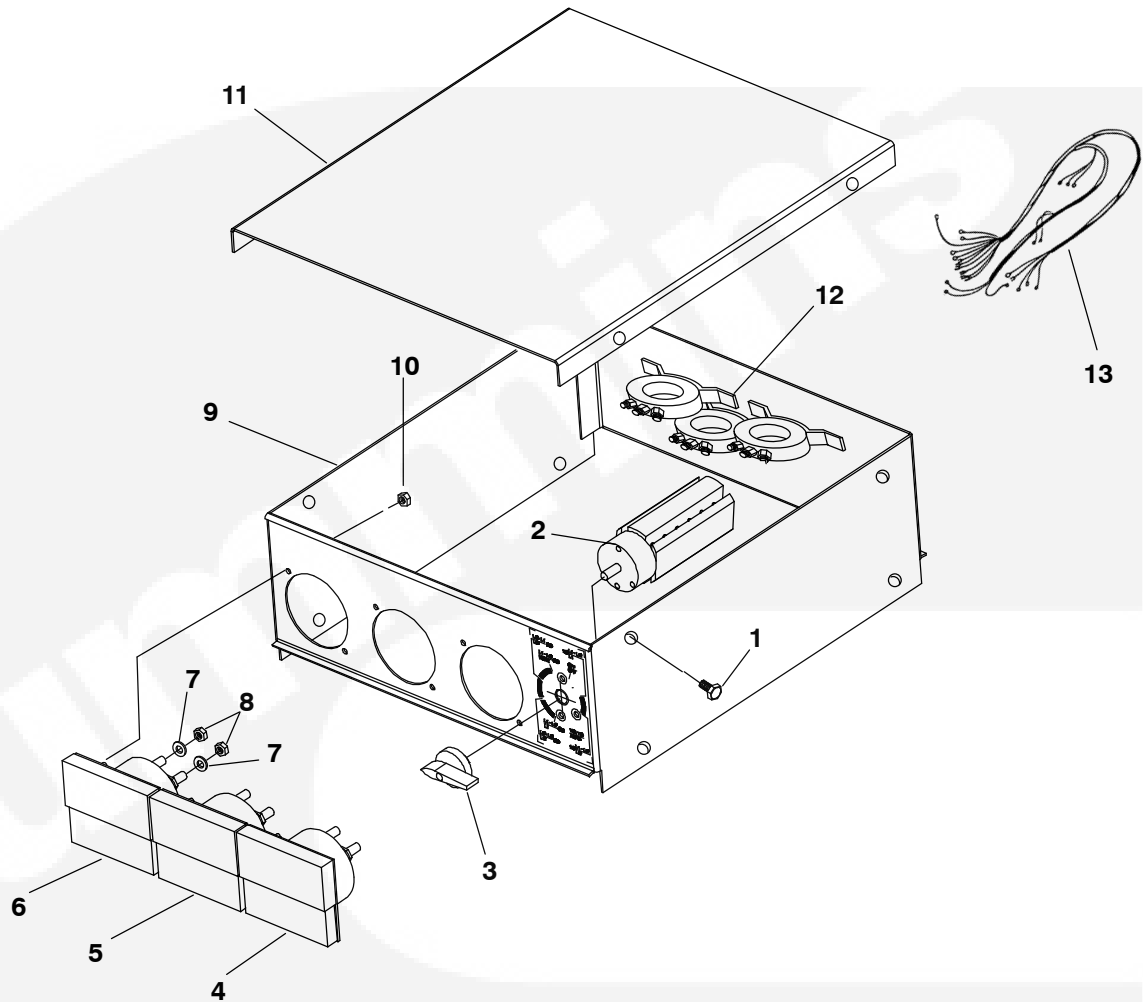


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Meter Panel	8	302-1148	1	+ Meter, Volt
	300-5053-01	1	0-15 or 0-30 Amps	9			+ Ammeter
	300-5053-02	1	0-50 or 0-100 Amps		302-2033	1	15/30A
1	186-6621	8	Screw, Hex Head Cap (M6 x 1 x 10mm)		302-1473	1	50/100A
2	186-6974	8	Washer (M6)	10	302-1968	1	+ Meter, Frequency
3			Box, Control (Includes Parts Marked +)	11	186-7030	8	+ Washer (1/4")
	186-6867-01	1	15A Ammeter	12	186-7050	8	+ Nut, Hex (1/4-28)
	186-6867-02	1	30A Ammeter	13	186-6863	1	+ Box, AC Control
	186-6867-03	1	50A Ammeter	14	186-7040	6	+ Nut (4-40)
	186-6867-04	1	100A Ammeter	15	186-7041	6	+ Washer (#4)
4	186-6621	4	+ Screw, Hex Head Cap (M6 x 1 x 10mm)	16	186-6862	1	+ Cover, AC Control
5	186-6974	4	+ Washer (M6)	17			+ Transformer, Current
6	308-1052	1	+ Switch, Phase Selector (Includes Knob)		302-2034-03	3	W/15-30A Ammeter
7	308-1082	1	+ Knob, Selector Switch		302-2034-02	3	W/50-100A Ammeter
				18	186-6864	1	+ Harness, Wiring

+ - Parts Included in Control Box.



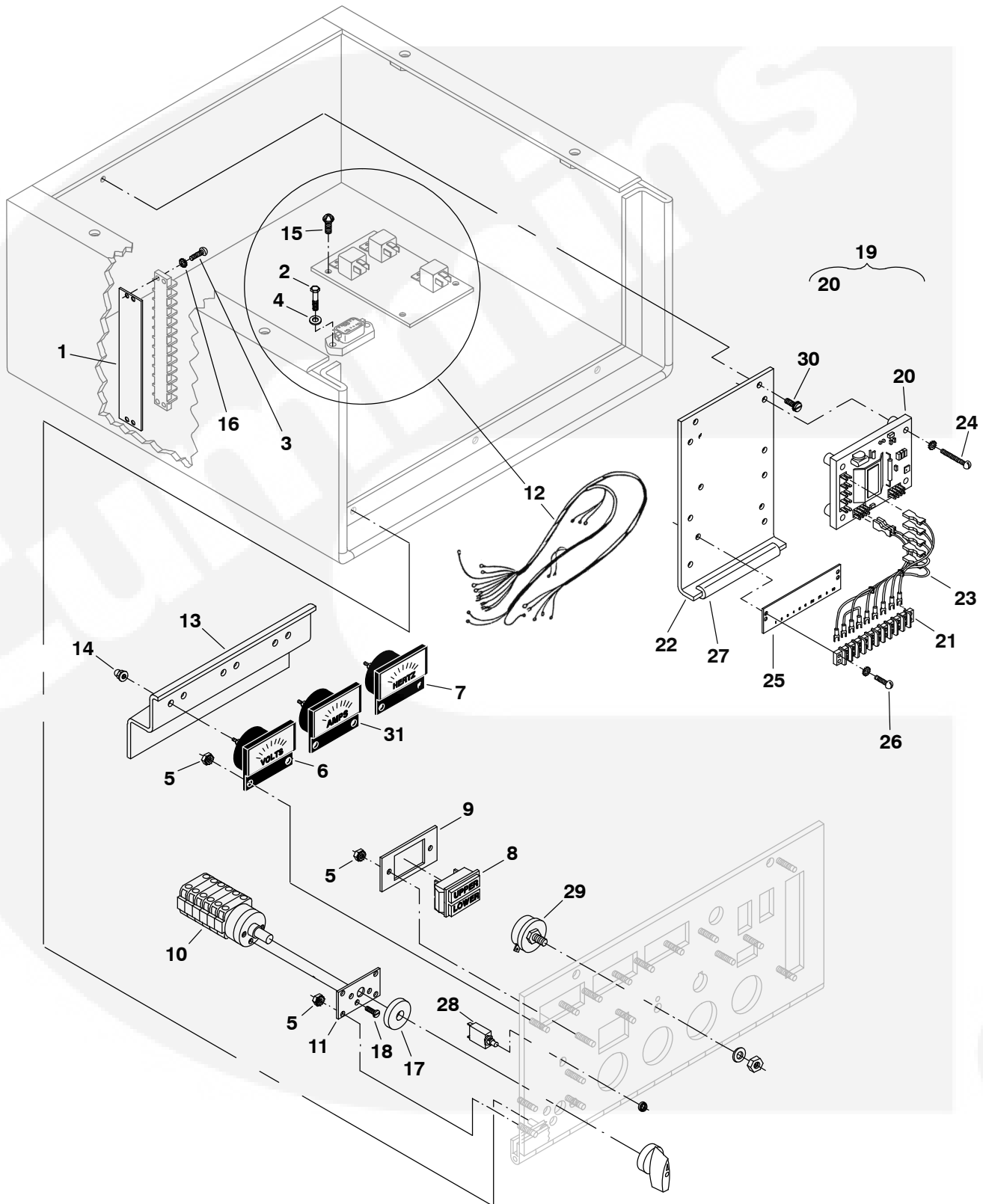
# **Meter Panel** **Manual (Type I) Remote (Type II)** **(Begin Spec B)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6002-03	4	Screw, Hex Head Sems (M6 x 1 x 16mm)
2	308-1052	1	Switch, Phase Selector (Includes Knob)
3	308-1082	1	Knob, Selector Switch
4	302-1148	1	Meter, Volt
5	302-2033	1	Ammeter 15/30A
	302-1473	1	50/100A
6	302-1968	1	Meter, Frequency

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	186-6933	6	Washer (1/4")
8	186-7050	6	Nut, Hex (1/4-28)
9	300-5215-04	1	Box, AC Control
10	870-1220	6	Nut (4-40)
11	300-5214-02	1	Cover, AC Control
12	302-2034-03	3	Transformer, Current W/15-30A Ammeter
	302-2034-02	3	W/50-100A Ammeter
13	338-3775	1	Harness, AC Control

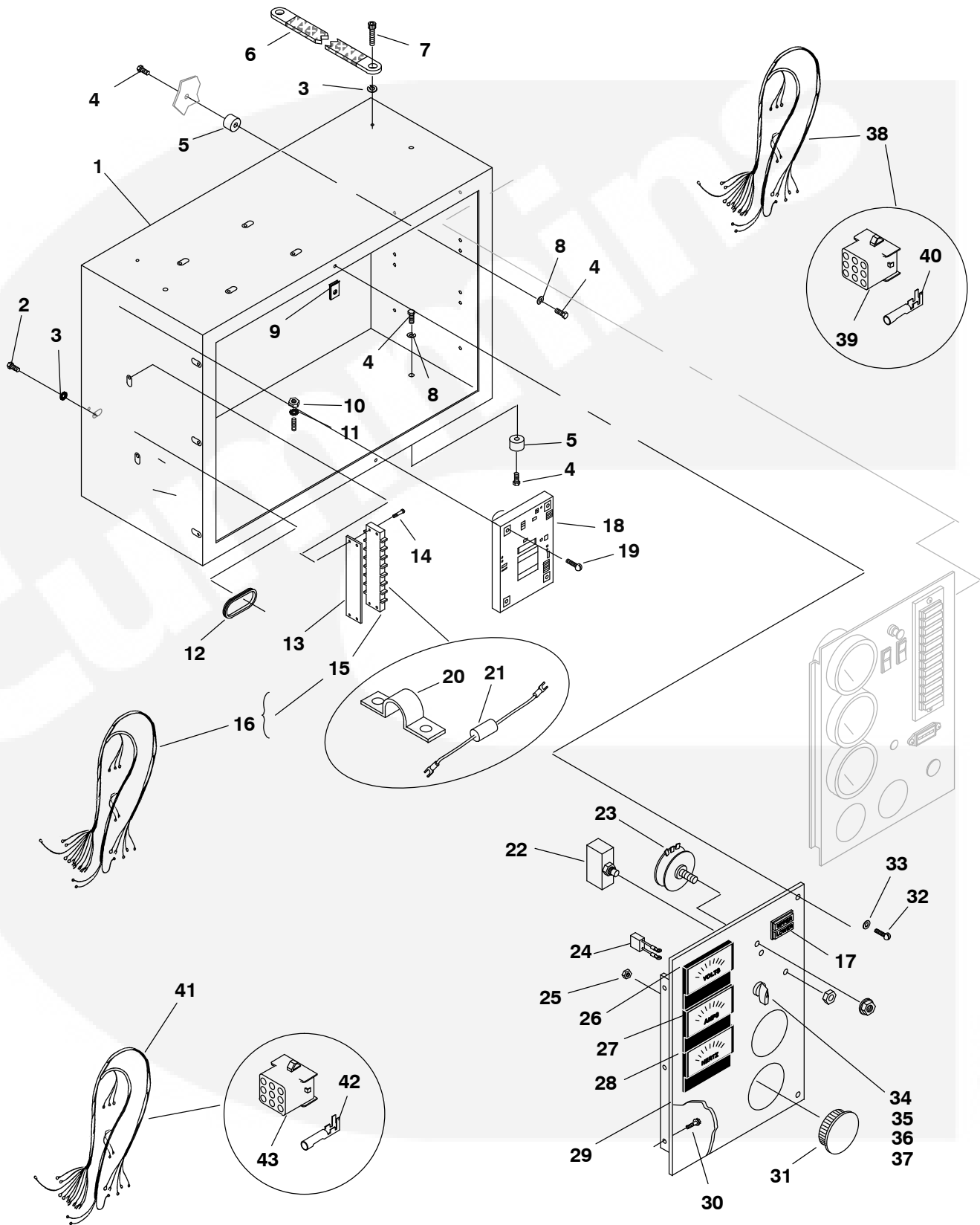
# AC Detector Control (Type III) (Spec A)



**AC Detector Control  
(Type III)  
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2723	1	Strip, Marker	13	319-2144	1	Cover, Meter
2	800-2033-01	4	Screw, Hex Head Cap (M6 x 1 x 16mm)	14	870-0439	6	Nut, Acorn (1/4-28)
3	812-0028	2	Screw, Round Head Machine (#4-40 x 5/16")	15	815-0550	4	Screw, IT Phillips Cross Recessed (#6-32 x 3/8")
4	526-0422	4	Washer, Nylon Retainer	16	853-0003	2	Washer, ET Lock (#4)
5	870-1220	14	Nut, ET Hex (#4-40)	17	308-1056	1	Gasket, Switch
6			Meter, AC Volt (M21)	18	815-0875-02	3	Screw, Pan Head Machine (M4 x 0.7 x 8mm)
	302-1148	1	Up to 480V	19	305-0949	1	Regulator Assy, Voltage (VR21) (Includes Parts Marked *)
	302-1753	1	600V	20	305-0844	1	*Regulator, Voltage (VR21)
7	302-1968	1	Meter, Frequency (M23)	21	332-0751	1	*Block, Terminal (10 Place)
8	322-0363	1	Lamp, Over/Under (DS21, DS22)	22	305-0884	1	*Plate, Voltage Regulator Mounting
9	319-2141	1	Bracket, Lamp	23	338-3481	1	*Harness, Regulator
10	308-1052	1	Switch, Rotary (Volt & Ammeter)	24	812-0084	4	*Screw (#8-32 x 1")
11	319-2490	1	Bracket, Switch	25	332-3247	1	*Strip, Marker
12	338-2992-01	1	Harness, Control (Includes the Following Indented Parts)	26	812-0082	2	*Screw (#8-32 x 3/4")
	321-0330	1	Holder Assy, Fuse	27	508-0139	1	*Channel, Rubber
	332-0607	1	Block, Terminal	28	320-1688-01	1	Breaker, Circuit (CB21)
	821-0040	3	Screw, Lock Head Flange (#10-32 x 5/16")	29	303-0261	1	Potentiometer (R21)
	307-2817-02	3	Relay	30	815-0428	2	Screw, ET Pan Head (#10-32 x 3/8")
	319-2140	1	Plate, Relay	31			Ammeter (M22)
	323-1633-02	1	Connector, Receptacle (12 Pin)		302-1473	1	0-50, 0-100
	323-1633-01	1	Connector, Receptacle (12 Pin)		302-2033	1	0-15, 0-30
	323-1591	3	Plug, Connector	* - Parts Included in Voltage Regulator Assy.			
	350-1222	1	Resistor Assy				
	323-1581	2	Wedge, Receptacle				
	323-1302	8	Pin, Contact				
	323-1308	1	Housing, PCB (12 Pin)				
	323-1200-01	15	Contact, Socket				
	323-1304	2	Housing, Connector (6 Pl)				
	323-1306	1	Housing, Connector (8 Pl)				

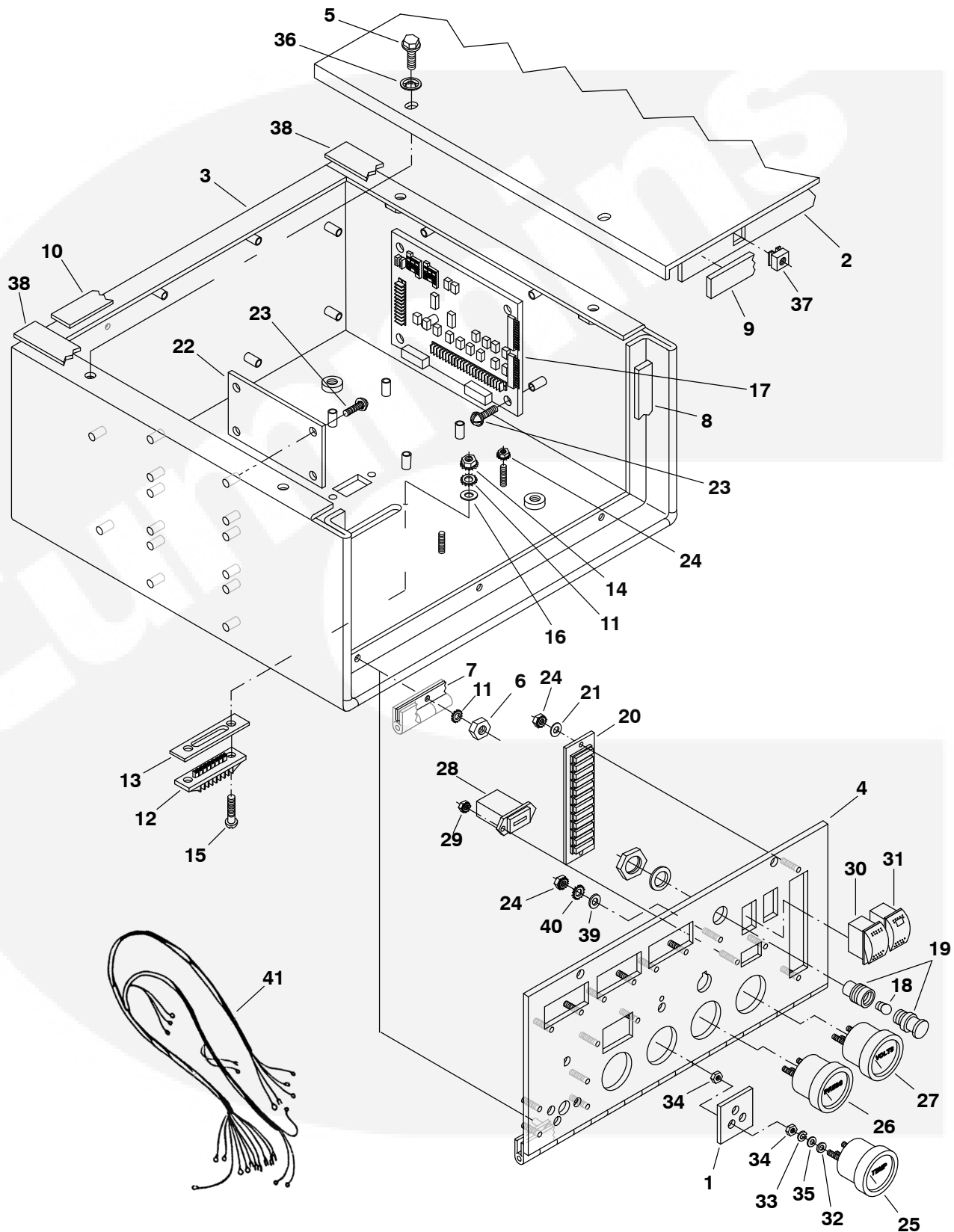
# **AC Detector Control (Type III) (Begin Spec B)**



**AC Detector Control  
(Type III)  
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3030	1	Box, Control	23	303-0261	1	Potentiometer
2	815-0905-08	1	Screw, Pan Head Cross Recessed (#10-32 x 7/8")	24	355-0189	1	Capacitor, Voltmeter (.1 Mfd., 500 WVDC) (C21)
3	856-0008	2	Washer, EIT Lock (5/16")	25	870-1220	6	Nut, Hex (#4-40)
4	821-0014	8	Screw, Hex Head Cap (5/16-18 x 3/8")	26			Voltmeter, AC (M21)
5	402-0527	4	Isolator, Vibration		302-1148	1	0-300/600
6	337-0049	1	Strap, Ground		302-1753	1	0-0750
7	821-0014	1	Screw, Hex Head Cap (5/16-18 x 1/2")	27			Ammeter, AC (M22)
8	850-0045	4	Washer, Spring Lock (5/16)		302-2033	1	0-15, 0-30
9	406-0332	2	Receptacle, Fastener		302-1473	1	0-50, 0-100
10	871-0015	1	Nut, Hex (1/4-20)	28	302-1968	1	Meter, Frequency (M23)
11	526-0018	1	Washer, Flat (1/4")	29	301-9054-01	1	Door, AC Control
12	508-0051	1	Grommet (Fits 2" Hole)	30	821-0004	3	Screw, Hex Washer Head Self-Locking (#10-32 x 5/16")
13	332-2723	1	Strip, Marker	31	517-0302	1	Grommet (Fits 2-1/2" Hole)
14	815-0901-06	2	Screw, Cross Recessed Thread Forming (#6-32 x 5/8")	32	406-0333	2	Stud, Fastener
15	332-0607	1	Block, Terminal (12 Place) (TB21)	33	406-0334	2	Washer, Stud Retainer
16	338-2278	1	Harness, AC Control Door (Includes Terminal Block) (19 Wire, 26") (TB21, GND to GND, M21,22,23, S21, DS21,22)	34	853-0008	1	Washer, ET Lock (#10)
17	322-0363	1	Light, Upper/Lower Indicator Scale (DS21,22)	35	308-1052	1	Switch, Rotary (Voltmeter/Ammeter (Includes Handle) (S21)
18	305-0844	1	Regulator, Voltage	36	815-0875-02	3	Screw, Round Head Machine (M4 x 8mm)
19	815-0905-08	4	Screw, Cross Recessed (#10-23 x 7/8")	37	308-1082	1	Handle, Rotary Switch
20	332-1043	1	Jumper	38	338-3429	1	Harness, Terminal Block (9 Wire, 11") (Includes Connector Plug and Sockets) (P2 to TB21)
21	350-1222	1	Resistor Assy	39	323-1644-02	1	Plug, Connector (P2)
22	320-1688-01	1	Breaker, Circuit	40	323-1648	9	Socket, Contact
				41	338-3772	1	Harness, AC Aux
				42	323-1647	AR	Pin, Terminal
				43	323-1644-01	1	Housing, Plug

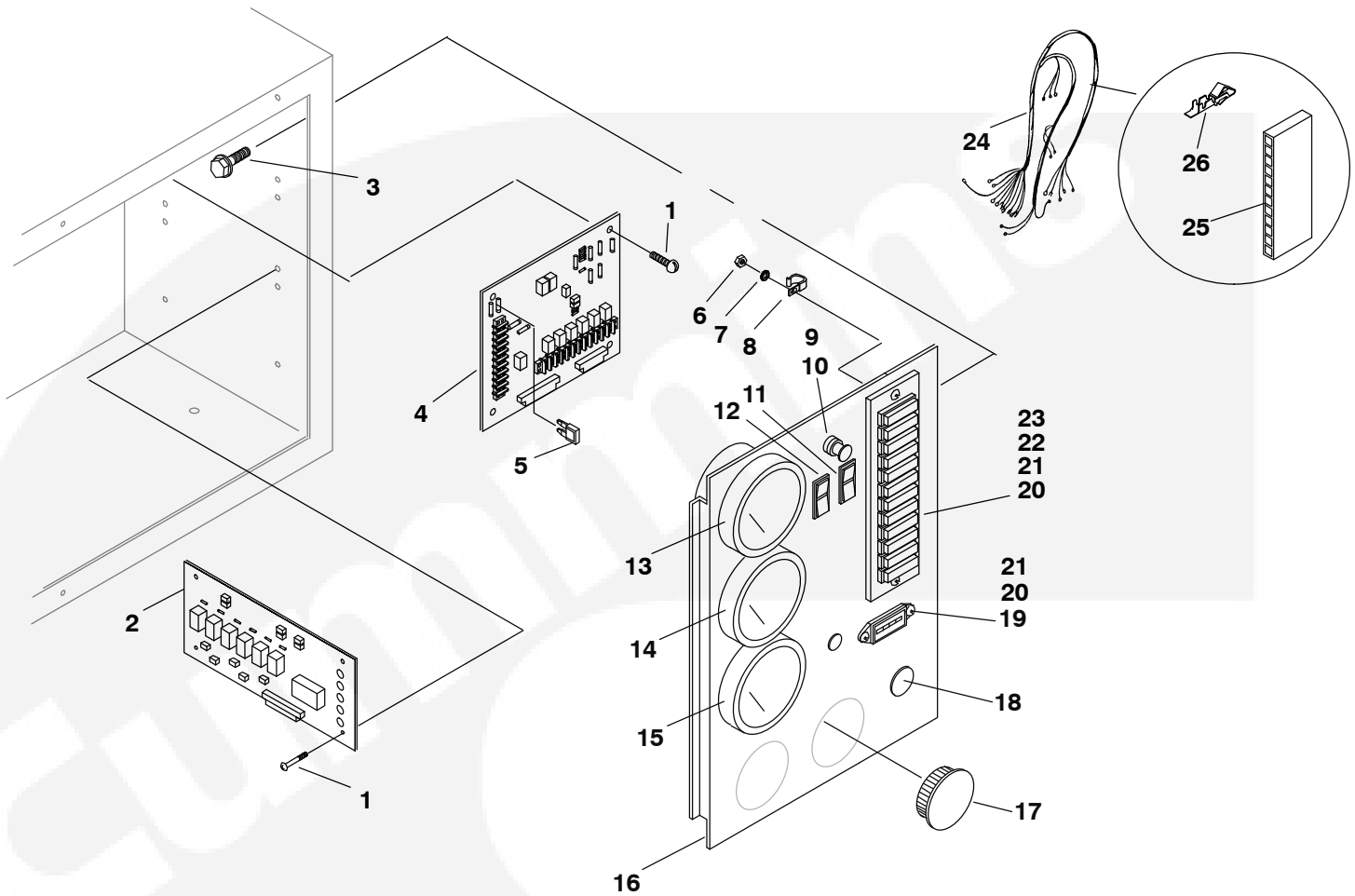
# **DC Detector Control (Type III) (Spec A)**



**DC Detector Control**  
**(Type III)**  
**(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4323	1	PCB, Gauge	21	526-0196	2	Washer, Flat (7/32 x 7/16 x 1/8)
2	319-2100-01	1	Cover, Control Box	22	300-2898	1	Board, Time Delay Start/Stop /Preheat (12V)
3	319-2105	1	Box, Control	23	815-0550	8	Screw, IT Round Head Machine Cross Recessed (#6-32 x 3/8")
4	319-2491-03	1	Panel, Control	24	870-0183	4	Nut, ET Hex (#6-32)
5	800-2034-01	6	Bolt, Hex Head Cap (M6 x 1 x 20mm)	25	193-0351	1	Gauge, Water Temperature (M12)
6	860-2006	3	Nut, Hex (M5 x .8)	26	193-0466	1	Gauge, Oil Pressure (M11)
7	895-0337	1	Gasket, Hinge	27	302-1641	1	Meter, Volt (12V) (M13)
8	895-0336	2	Gasket, Side	28	302-0885	1	Meter, Running Time (M14)
9	895-0338	1	Gasket, Top	29	870-1220	4	Nut, ET Hex (#4-40)
10	895-0339	1	Gasket, Cover	30	308-1011	1	Switch, Run/Stop/Remote (S12)
11	853-0008	5	Washer, ET Lock (#10)	31	308-1010	1	Switch, Reset/Lamp Test (S11)
12	332-3239	1	Block, Terminal	32	526-0049	13	Washer, Flat Brass (#10)
13	332-3244	1	Gasket, Terminal Block	33	850-0030	5	Washer, Lock (#10)
14	870-0131	6	Nut, ET Hex (#10-32)	34	871-0010	10	Nut, Hex Brass (#10-32)
15	813-0108	2	Screw, Round Head Machine Slotted (#10-32 x 1.5")	35	526-0409	8	Washer, Nylon
16	526-0008	2	Washer, Flat (#10)	36	526-0422	6	Washer, Nylon Retainer
17	300-4296	1	Board, Engine Monitor (12V, 12 Light)	37	870-2195	2	Nut, Captive Floating
18	322-0004	1	Lamp (12V) (DS11)	38	895-0353	2	Gasket, Cover (Sides)
19	322-0361	1	Light, Panel (DS11)	39	526-0002	1	Washer, Flat (#6)
20	322-0360-01	1	Lamp Assy (12V, 12 Light) (A12) (Includes the Following Indented Lights)	40	853-0005	1	Washer, ET Lock (#8)
	322-0238		Run (Green)	41	186-6365	1	Harness, Engine
	322-0241		Pre Lo Oil Pres (Amber)				
	322-0240		Pre Hi Engine Temp (Amber)				
	322-0108		Lo Oil Pres (Red)				
	322-0109		Hi Engine Temp (Red)				
	322-0111		Overspeed (Red)				
	322-0107		Overcrank (Red)				
	322-0110		Lo Engine Temp (Amber)				
	322-0113		Lo Fuel (Amber)				
	322-0283		Switch Off (Red)				
	322-0136		Blank (Red)				
	322-0168		Blank (Amber)				

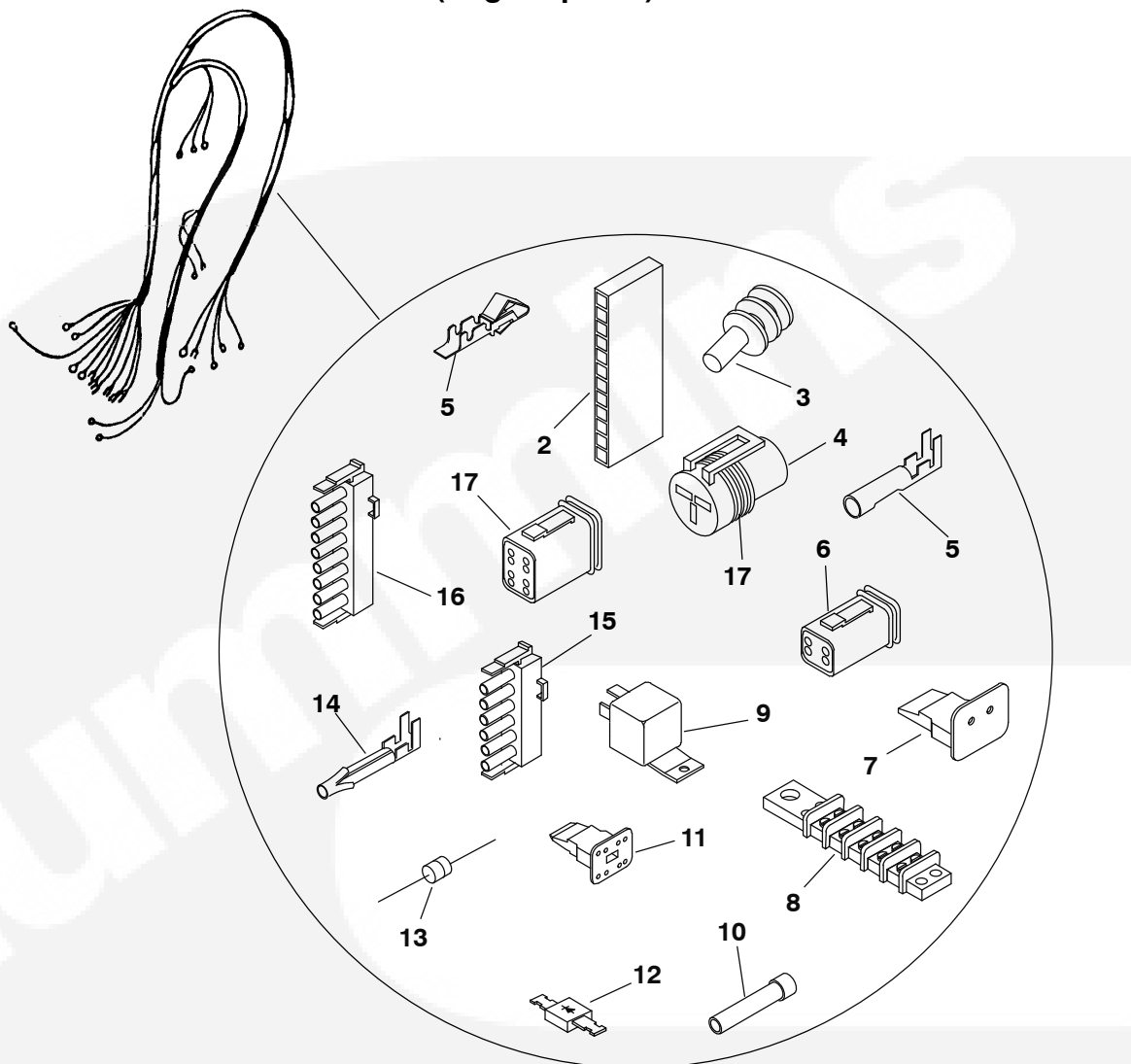
# **DC Detector Control (Type III) (Begin Spec B)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0388	8	Screw, Pan Head Cross Recessed (#6-32 x 1/2")	14	193-0351	1	Gauge, Water Temperature (M12)
2	300-5098-01	1	Board, PC Sensor Board (A27)	15	302-1641	1	Meter, Voltage (M13)
3	821-0004	3	Screw, Hex Washer Head Self-Locking (#10-32 x 5/16")	16	301-9055-01	1	Door, DC Control
4	300-4296	1	Board Assy, PC Engine Monitor (Includes Fuses) (A11)	17	517-0301	1	Plug, Hole (Fits 2" Hole)
5			Fuse	18	517-0131	1	Plug, Hole (Fits 7/8" Hole)
	321-0307-03	2	5 Amp (Tan) (F4, F5)	19	302-2002	1	Meter, Hour (M14)
	321-0307-06	1	15 Amp (Light Blue) (F3)	20	870-0183	4	Nut, ET Hex (#6-32)
	321-0307-07	2	20 Amp (Yellow) (F1, F2)	21	815-0385	4	Screw, Round Head Machine (#6-32 x 1/2")
6	870-0131	1	Nut, ET Hex (#10-32)	22	322-0360-01	1	Light Assy, Indicator (Includes Wiring Harness and Connector Housing) (A12)
7	853-0008	1	Washer, ET Lock (#10)	23	322-0369-01	1	Light, Replacement Indicator
8	332-0052	2	Clip, Wire	24	338-3252	1	Harness, DC Control Door (Includes Connector Housing and Contact Pins) (22 Wire, 32") (A11J4 to GND, M11,12,13,14, S11,12, DS11)
9	322-0004	1	Bulb, Panel Replacement Light	25	323-1308	1	Housing, Connector (J4)
10	322-0361	1	Light, Panel (DS11)	26	323-1302	11	Pin, Contact
11	308-1010	1	Switch, Rocker (Lamp Test/Reset Panel Lamp) (S11)				
12	308-1011	1	Switch, Rocker (Run/Stop/Reset) (S12)				
13	193-0466	1	Gauge, Oil Pressure (M11)				

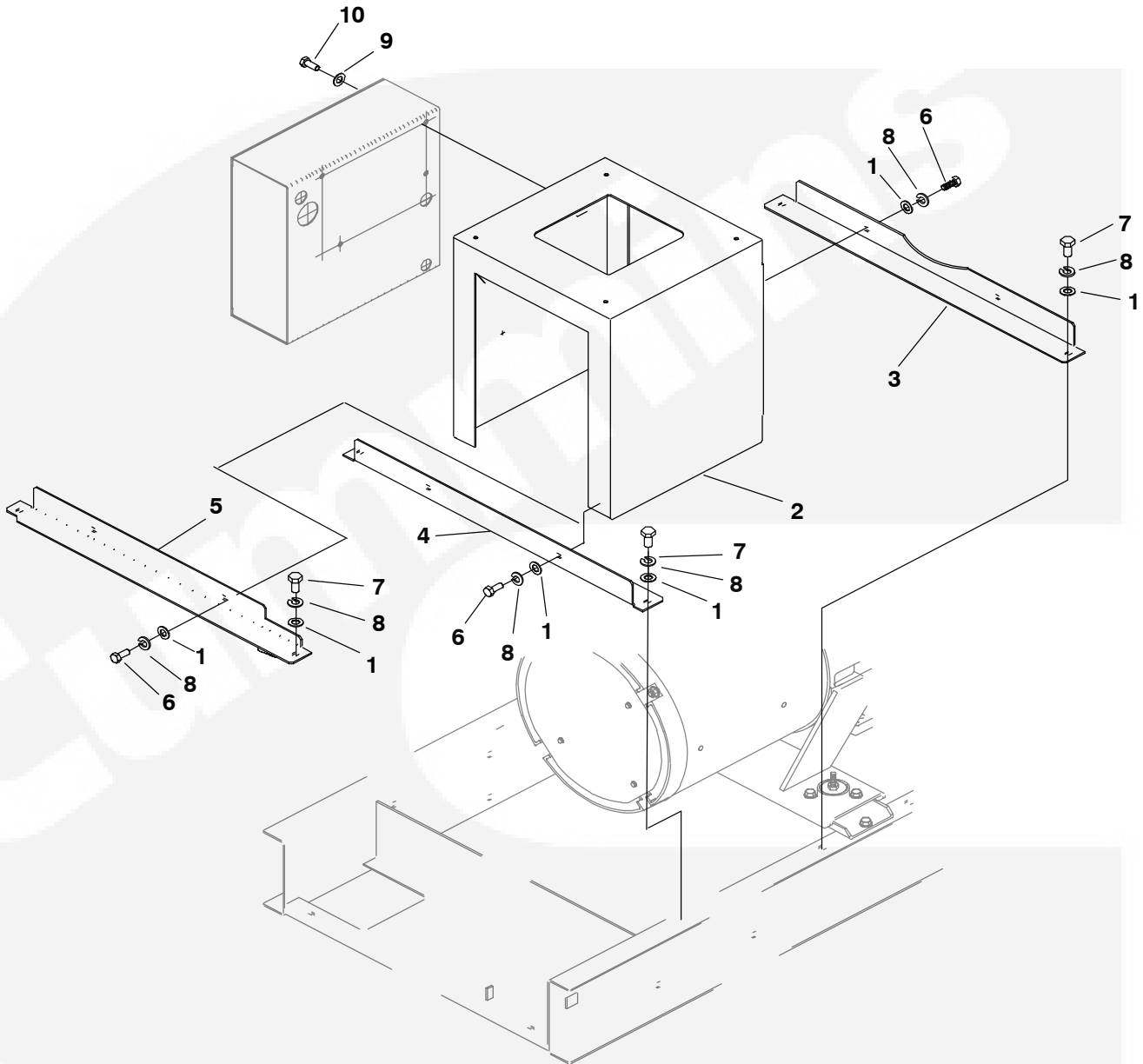


## Detector Control Engine Harness (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-3739	1	Harness, Engine	9	307-2817-01	2	Relay (12V)
1	323-1302	1	Contact, Socket	10	323-1591	4	Connector, Plug
2	323-1374-12	1	Connector, Housing (J3) (12 Pin)	11	323-1543	AR	Wedge, Plug (P2) (8 Pin)
3	323-1708	1	Seal, Cable	12	357-0030	AR	Rectifier, Silicon (6A, 400V)
4	323-1765	1	Connector, Housing (4 Pin)	13	351-1599-42	1	Resistor (24 Ohms, 5W)
5	323-1709	1	Socket, Terminal	14	323-1200	AR	Socket, Contract
6	323-1546	1	Plug (4 Pin)	15	323-1304	1	Housing, Connector (6 Pl)
7	323-1548	1	Wedge, Plug (4 Pin)	16	323-1306	1	Housing, Connector (8 Pl)
8	332-3276-01	1	Bracket Assy, Terminal (T26)	17	323-1541	1	Plug, 8 Pin (P2)

**Detector Control Mount  
(Type III)  
(Spec A)  
(GNAA, GNAB)**

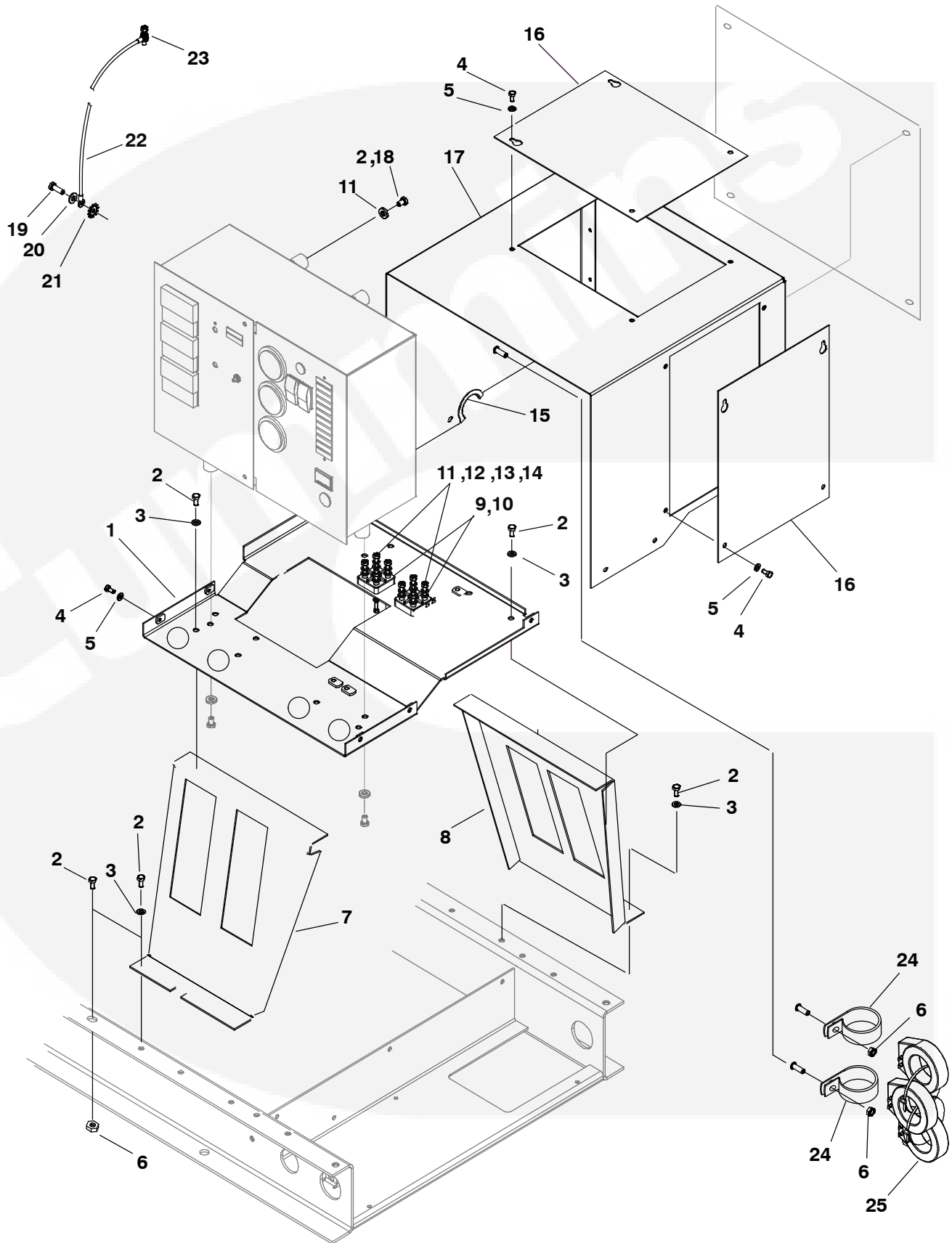


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6975	8	Washer, Flat (M8)	6	186-6668	4	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
2	186-6878	1	Saddle, Detector Box Mounting	7	186-6064	4	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
3	186-6871	1	Rail, Front Detector Box Support	8	186-6529	8	Washer, Spring (M8)
4	186-6872	1	Rail, Rear Detector Box Support (Use W/Single Wall Fuel Tank)	9	186-6623	4	Washer, EIT (5/16")
5	186-6879	1	Rail, Rear Detector Box Support (Use W/Dual Wall Fuel Tank)	10	186-6622	4	Screw (M8 x 1.25 x 16mm)

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**Detector Control Mount  
(Type III)  
(Begin Spec B)**



**Detector Control Mount  
(Type III)  
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3613	1	Bottom, Control Box	13	186-7076	2	Washer, Flat (M5)
2	186-6064	8	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	14	800-2004	2	Screw, Hex Head Cap Thread Cutting (M5 x .8 x 1mm)
3	186-6975	8	Washer, Flat (M8) (Rear Mounted Brackets)	15	186-7077	1	Edging (3")
4	186-6037	14	Screw, Hex Head Cap (M6 x 1 x 12mm)	16	319-3316	2	Cover, Control Housing
5	186-6974	14	Washer, Flat (M6)	17	319-3612	1	Top, Control Box Housing
6	186-6274	2	Nut, Hex (M8 x 1.25) For Rear Mounted Brackets	18	800-0024	4	Screw, Hex Head Cap (5/16-18 NC x 1/2")
	186-6274	4	For Front and Middle Mounted Brackets	19	186-7075	1	Screw, Hex Head Thread Cutting (5/16-18 x 1/2")
7	186-7113	1	Bracket, Control Saddle	20	186-7086	2	Washer, Flat (3/8")
8	186-7114	1	Bracket, Control Saddle	21	862-0003	2	Nut, Hex (3/8-16)
9	186-6597	9	Washer, Spring Lock (M6)	22	186-6339	1	Cable, Ground
10	186-6209	9	Nut, Hex (M6)	23	862-0001	1	Nut, Hex (1/4-20)
11	186-6187	21	Washer, Flat (5/16")	24	186-7080	2	Clamp, Tubing (1-1/4")
12	332-3249	2	Block, Terminal	25			Transformer
					302-2034-02	3	W/50-100A Ammeter
					302-2034-03	3	W/15-30A Ammeter

### Detector Control Circuit Breaker (Begin Spec B)

10 9 8 1 2 3 4 7

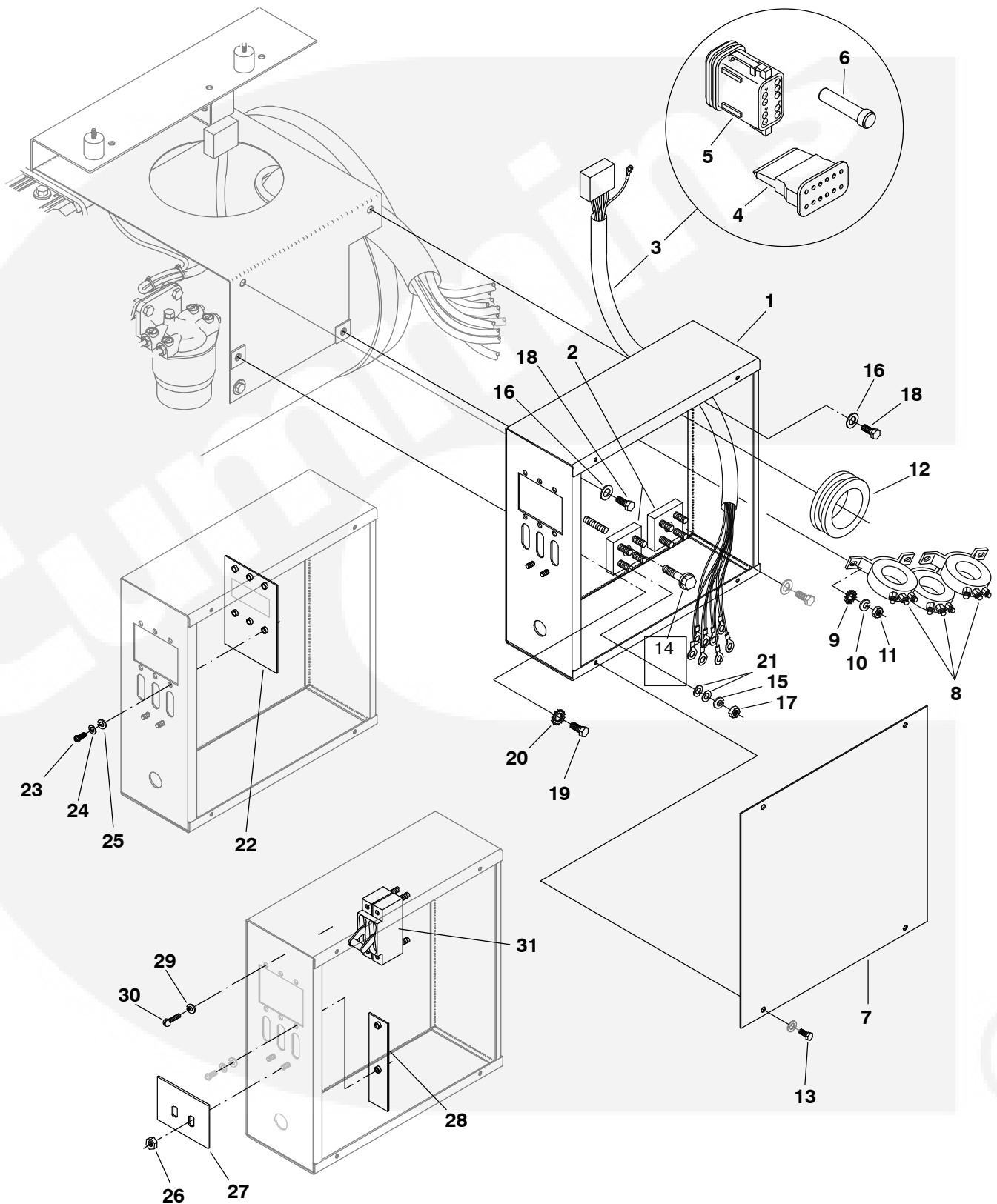
108 GNAA/B/C

**Detector Control  
Circuit Breaker  
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bracket, Mounting	3	186-6974	10	Washer, Flat (M6)
	319-4135	1	2 Pole CB	4	186-6037	10	Screw, Hex Head Cap (M6 x 1.0 x 12mm)
			3 Pole CB				Nylock (M4 x 0.7)
	319-3825	1	480V Sets	5			Single CB
	319-3643-02	1	600V Sets		186-6831	4	Dual CB
2			Breaker, Circuit		186-6831	8	Screw, Hex Head Cap (M4 x 0.7 x 10mm)
			2 Pole, 240V	6			Single CB
	320-2005-11	1	10A		186-7079	4	Dual CB
	320-2005-10	1	15A		186-7079	8	Panel, CB
	320-2005-09	1	20A				W/Circuit Breaker
	320-2005-08	1	25A	7			2 Pole
	320-2005-07	1	30A				Single CB
	320-2005-06	1	35A		319-3826	1	Dual CB
	320-2005-05	1	40A		319-3827	1	3 Pole CB
	320-2005-04	1	45A				480V Sets
	320-2005-03	1	50A				Single CB
	320-2005-02	1	60A		319-3826	1	Dual CB
	320-2005-01	1	70A		319-3827	1	600V Sets
	320-2006-04	1	80A				Single CB
	320-2006-03	1	90A		319-3640-02	1	Dual CB
	320-2006-02	1	100A		319-3641	1	Cover, Control Housing (W/O Circuit Breaker)
			3 Pole	8	319-3611	1	Washer, Flat (M6)
			480V				Screw, Hex Head Cap (M6 x 1 x 12mm)
	320-2009-11	1	15A	9	186-6973	4	
	320-2009-10	1	20A	10	186-6037	4	
	320-2009-09	1	30A				
	320-2009-08	1	40A				
	320-2009-06	1	50A				
	320-2009-05	1	60A				
	320-2009-04	1	70A				
	320-2009-03	1	80A				
			600V				
	320-1959-22	1	15A				
	320-1959-21	1	20A				
	320-1959-20	1	30A				



# **Output Box Detector Control (Type III)**

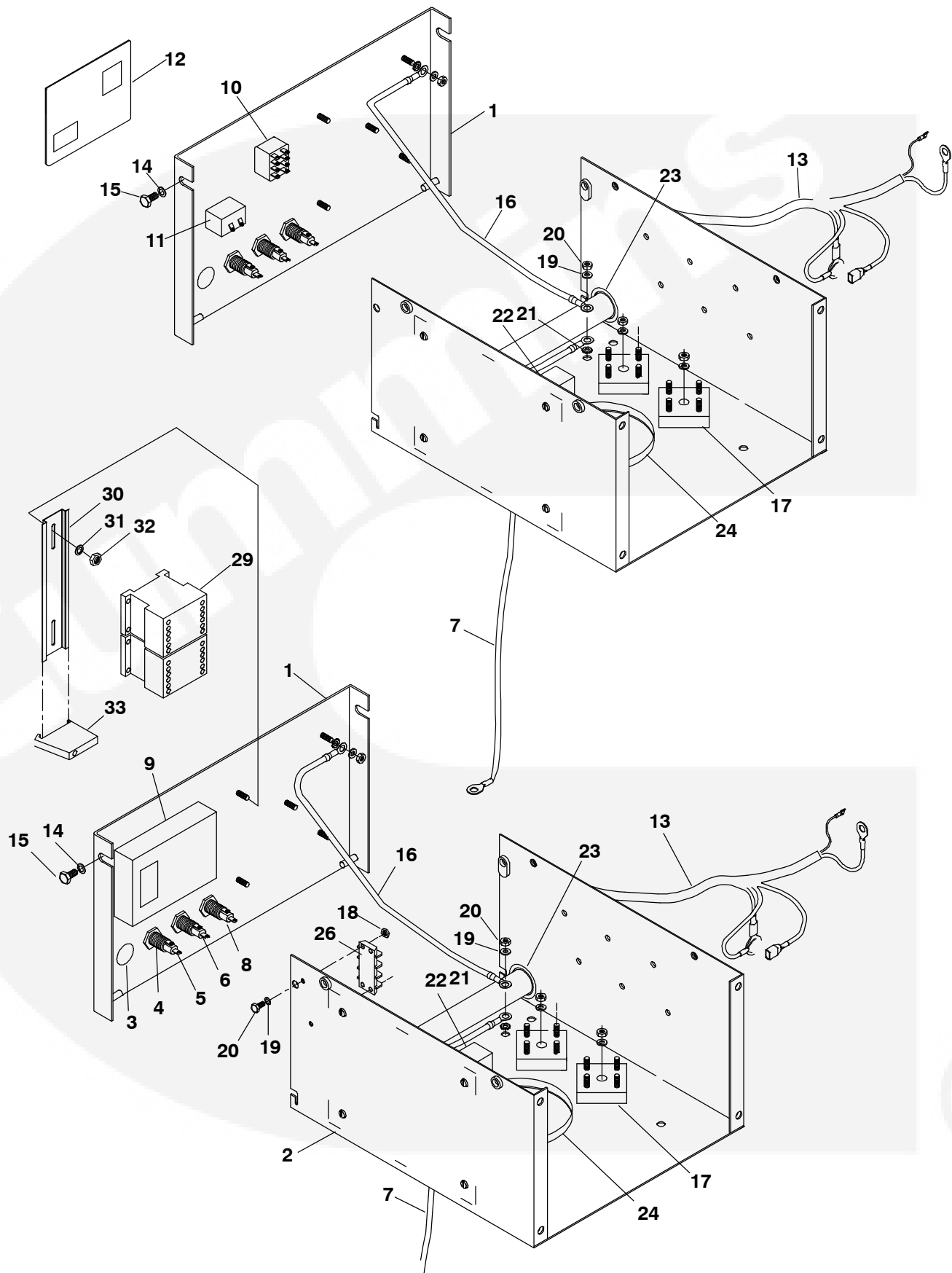




# **Output Box Detector Control (Type III)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3102	1	Panel, Control Box Side	31			Breaker, Circuit
2	332-3249	2	Block, AC Terminal				2 Pole
3	338-2990	1	Harness, AC Generator (Includes Wedge and Plugs)	320-1841-02	1		15A
4	323-1583	1	Wedge, Plug (12 Pin)	320-1841-03	1		20A
5	323-1582-02	1	Plug (12 Pin)	320-1841-04	1		25A
6	323-1591	11	Plug, Connector	320-1841-05	1		30A
7	319-3131	1	Cover, Control Box	320-1841-06	1		35A
8	302-1984-03	3	Transformer, Current	320-1841-07	1		40A
9	856-0006	1	Washer, EIT Lock	320-1841-08	1		45A
10	850-2056	6	Washer, Spring Lock	320-1841-09	1		50A
11	860-2057	6	Nut, Hex	320-1841-10	1		55A
12	508-1057	1	Grommet	320-1841-11	1		60A
13	821-6002-03	4	Screw, Hex Head (M6 x 0.8)	320-1841-12	1		65A
14	821-2023	2	Screw, Lock Flange	320-1841-13	1		70A
15	186-6597	8	Washer, Lock (M6)	320-1841-14	1		75A
16	186-6618	2	Washer, Spring (M8)	320-1841-15	1		80A
17	186-6209	8	Nut, Hex (M6 x 1)	320-1841-16	1		85A
18	186-6668	2	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	320-1841-17	1		90A
19	186-6622	1	Screw, Hex Head Cap (M8 x 1.25 x 16)	320-1841-18	1		95A
20	186-6623	1	Washer, EIT (5/16")	320-1841-19	1		100A
21	186-6591	16	Washer, Flat (M6)				3 Pole
Without Circuit Breaker, Use:				320-1827-02	1		15A
22	319-2184	1	Plate, Cover	320-1827-03	1		20A
23	186-6488	6	Screw (#6-32 x 3/8")	320-1827-04	1		25A
24	186-6663	6	Washer, Flat (#6)	320-1827-05	1		30A
25	186-6428	6	Washer, Lock (#6)	320-1827-06	1		35A
With Circuit Breaker, Use:				320-1827-07	1		40A
26	186-6913	2	Nut, Lock (M6 x 1)	320-1827-08	1		45A
27	186-6386	1	Cover, CB	320-1827-09	1		50A
28	319-2185	1	Plate, CB Cover (Use With 2 Pole CB Only)	320-1827-10	1		55A
29	186-6428	6	Washer, Lock (#6)	320-1827-11	1		60A
30	186-6488	6	Screw (#6-32 x 3/8")	320-1827-12	1		65A
				320-1827-13	1		70A
				320-1827-14	1		75A
				320-1827-15	1		80A
				320-1827-16	1		85A
				320-1851-03	1		20A
				320-1851-04	1		25A
				320-1851-05	1		30A

**Control Assembly  
(Begin Spec D)**



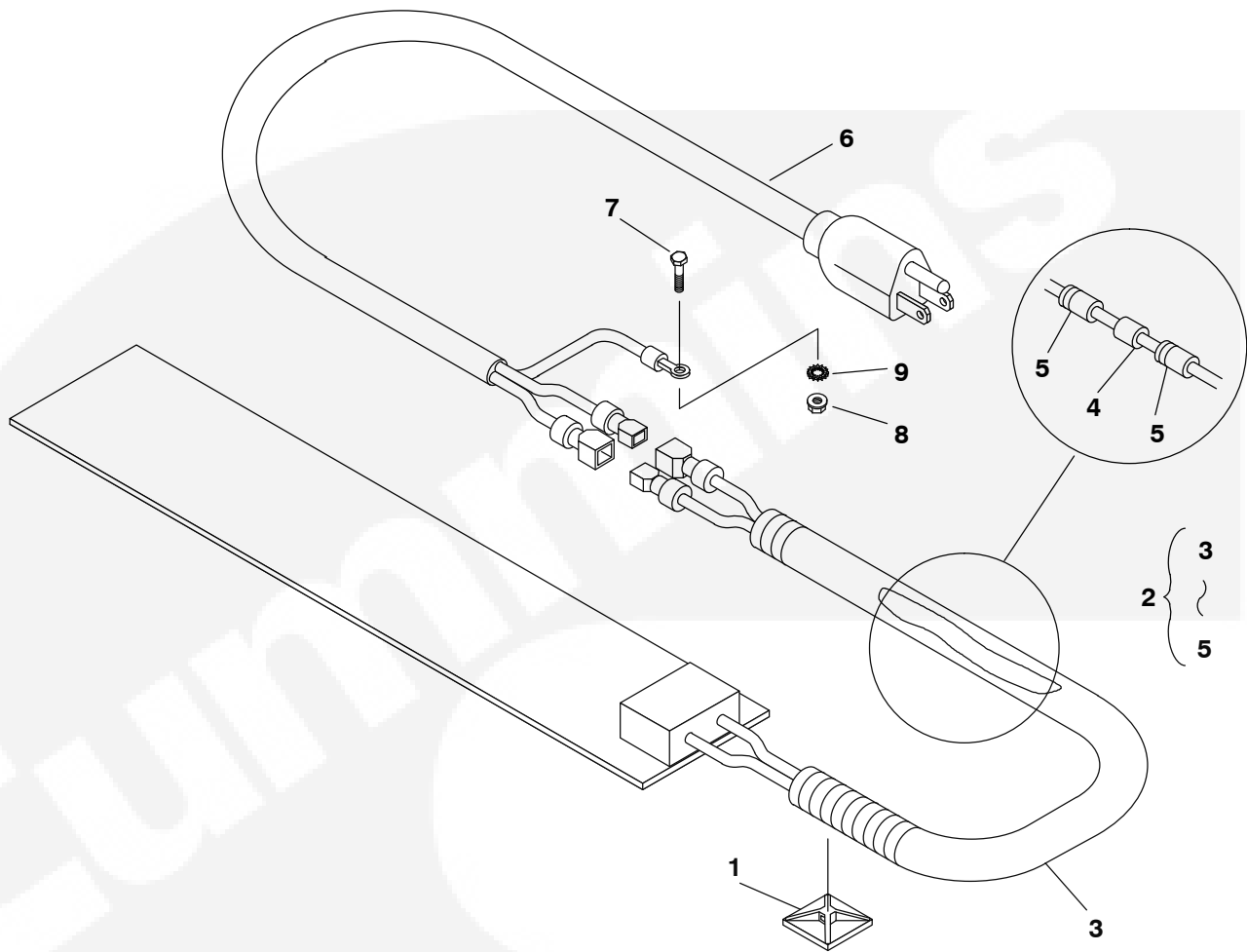
### Control Assembly (Begin Spec D)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	184-0231	1	Assy Panel, Display Control (Includes Parts Marked +)	17	332-3249	2	+*Blocks, Power Dist.
	184-0252	1	Assy Panel, Metered Control (Includes Parts Marked *)	18	186-6127	4	+*Screw, Hex Head Cap (M5 x 0.8 x 35mm)
1			Panel, Control	19	526-2060	12	+*Washer, Flat (M5)
	184-0201	1	+ Panel, Control	20	860-2006	8	+*Nut, Hex (M5)
	184-0201	1	*Panel, Control	21	853-2005	2	+*Washer, Star (M5)
2	184-0202	1	+*Cover, Control Box	22	327-1513-02	1	+*Board, PCC1301 Control
3	517-0138-09	1	+*Plug	23	184-0329	1	+*Bushing, Rubber
4	321-0175	3	+*Fuse, Holder	24	184-0330	1	+*Bushing, Plastic
5	321-0327-07	1	+*Fuse, 20A	25	184-0312	1	+*Relay, 12VDC
6	321-0327-06	1	+*Fuse, 15A	26	332-0611	1	+*Block, Terminal (M12)
7	184-6339	1	+*Cable, Ground	27	184-0331	1	+ Label, Ground Symbol
8	321-0327-05	1	+*Fuse, 10A	28	184-0307	1	+ Label, Information
9	300-5875	1	+ Control, Display Panel	29	307-2873	2	Relay, Control (12VDC)
10	308-1092	1	*Switch, Rocker	30	332-2878-02	1	Rail, Terminal
11	302-2002	1	*Hour, Meter	31	526-2060	2	Washer, Flat
12	98-8339	1	*Label, Information	32	860-2006	2	Nut, Hex (M5 x .8mm)
13	184-0207	1	+*Harness, Genset	33	332-2878	2	Bracket, End
14	186-6546	2	+*Screw, Hex Head Cap (M6 x 1.0 x 16)				
15	186-6974	2	+*Washer, Flat (M6)				
16	184-0328	1	+*Cable, Ground				

+ - Part Included in Assembly 184-0231

\* - Part Included in Assembly 184-0252

## Control Heater



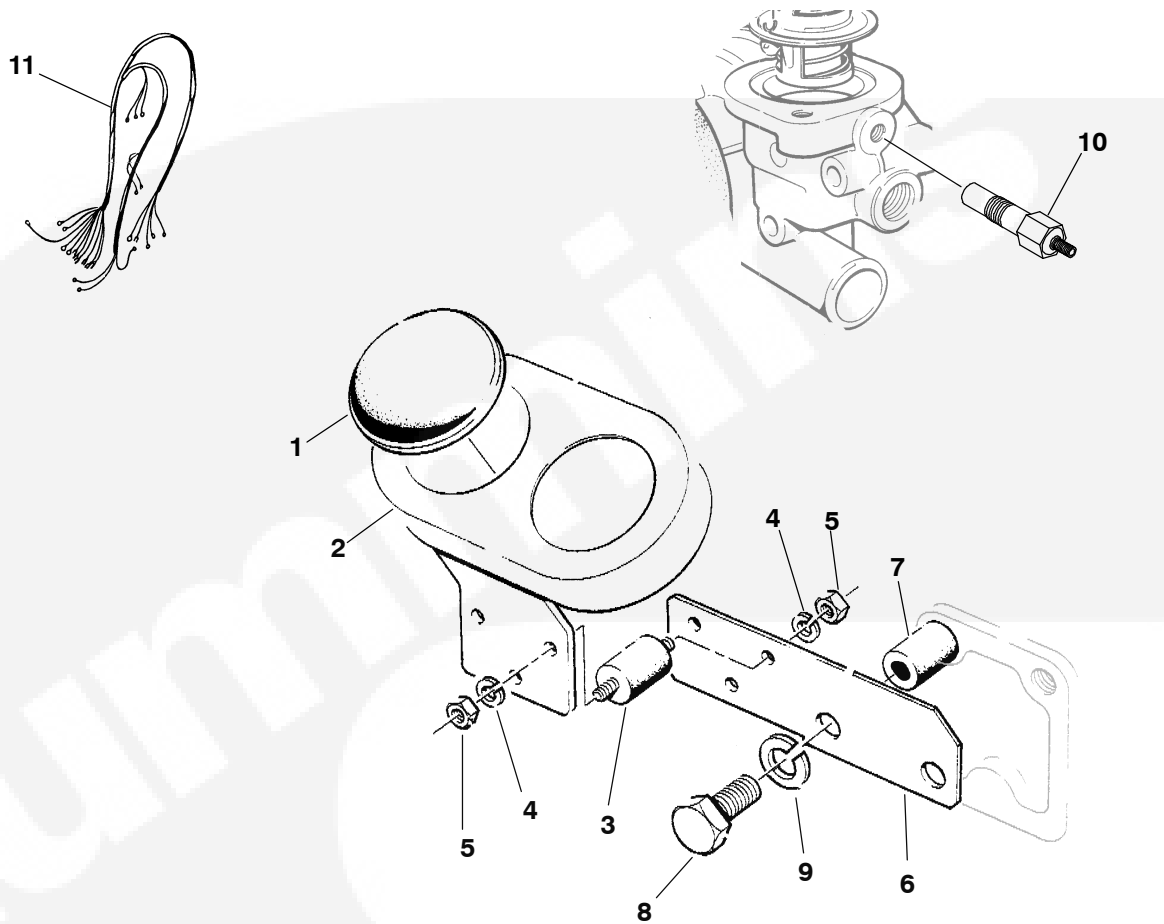
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4438	1	Kit, Control Heater 120V (Includes Parts Marked *)	4	357-0114	1	Rectifier, Power
	300-4439	1	W/O Cord (Includes Parts Marked +)	5	332-1789	2	Splice, Window (18 Gauge)
	300-4439-01	1	W/Cord (Includes Parts Marked + and #)	6	335-0173	1	* 120V
1	332-3338	2	+*Mount, Cable Tie		335-0173-01	1	# 240V
2			Heater Assy, Control (Includes Heater, Rectifier and Splice)	7	800-0024	1	#*Screw, Hex Head Cap (5/16-18 x 3/4)
	300-4514-01	1	* 120V	8	870-0257	1	#*Nut, Self Locking Hex (5/16-18)
	300-4515-02	1	+ 240V	9	856-0008	2	#*Washer, Lock EIT (5/16)
3			Heater, Control (120V)				
	333-0550-01	1	120V				
	333-0550-02	1	240V				

\* - Parts Included in 120V Control Heater Kit.

+ - Parts Included in 240V Control Heater Kits W/ and  
W/O Cord.

# - Parts Included in 240V Control Heater Kit W/Cord.

**Gauge Panel  
Manual (Type I)  
Remote (Type II)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0475	1	Kit, Temperature/Voltmeter Meter/Gauge	5	186-7206	6	Nut
	186-7029	1	Gauge, Temperature	6	186-7047	1	Bracket, Mounting
	186-7034	1	Meter, Volt	7	186-7033	2	Spacer
2	186-7048	1	Panel, Double Gauge	8	800-2070	2	Screw, Hex Head Cap
3	186-7060	3	Mount, Flexible	9	186-6671	2	Washer, Spring (M10)
4	186-7042	6	Washer, Spring	10	186-7032	1	Sender, Temperature
				11	186-7035	1	Harness, Wiring

## Gasket Sets

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			+ Set, Decarbonizing Gasket (Includes Parts Marked *)				Set, Overhaul Gasket (Includes all listed in Decarbonizing Set Plus Parts Marked +)
186-6211		1	GNAA	186-6212	1		GNAA
186-6485		1	GNAB	186-6487	1		GNAB
186-6210		1	GNAC	186-6213	1		GNAC
			Gasket, Cylinder Head Cover				#+ Gasket, End Cover (Cork)
186-6117		2	GNAA				+ Gasket, End Cover (Paper)
186-6117		3	GNAB	186-6147			+ Gasket, Crankcase Door
186-6117		4	GNAC				
			*O'Ring, Cylinder Head Cover	186-6010	1		GNAA
186-6028		4	GNAA	186-6405	1		GNAB
186-6028		6	GNAB	186-6012	1		GNAC
186-6028		8	GNAC	186-6017	1		+ Gasket, Fuel Lift Pump
			Gasket, Cylinder Head				+ Shims, Main Bearing Housing
			1.40mm	186-6065	1		.38mm
			1.53mm	186-6066	1		.50mm
			1.65mm	186-6129	2		+ O'Ring, Speed Control
			*Gasket, Inlet Manifold	186-6131	1		+ Washer, Speed Control (M5)
186-6202		2	GNAA	186-6163	6		+ Washers, Fuel Filter
186-6202		3	GNAB				+ Seal, Oil
186-6202		4	GNAC	186-6063	1		Flywheel End
			*Gasket, Exhaust Manifold	186-6148	1		Gear End
186-6206		2	GNAA				
186-6206		3	GNAB				
186-6206		4	GNAC				
			*Rubber, Bottom Sealing Tube				
186-6100		4	GNAA				
186-6100		6	GNAB				
186-6100		8	GNAC				
			*Rubber, Top Sealing Tube				
186-6102		4	GNAA				
186-6102		6	GNAB				
186-6102		8	GNAC				
			*Washer, Sealing Tube Rubber				
186-6101		4	GNAA				
186-6101		6	GNAB				
186-6101		8	GNAC				
			*Washer, Injector (No Hole in Center)				
186-6173		2	GNAA				
186-6173		3	GNAB				
186-6173		4	GNAC				
-		-	**Washer, Injector (Hole in Center)				
-		-	**Seal, Valve Stem				
			*Seal, Valve Stem				
186-6257		4	GNAA				
186-6257		6	GNAB				
186-6257		8	GNAC				
186-6180		1	*Gasket, Water Pump				
186-6184		2	*O'Ring, Water Pump				
186-6182		1	*Gasket, Water Pump Mounting Plate				
186-6190		1	*Gasket, Thermostat Housing				

# - Discard.

\* - Parts Included in Decarbonizing Gasket Set.

+ - Parts Included in Overhaul Gasket Set.

## Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-6195	1	Label, Caution Label, Control Panel (Start/Run/Off)		98-7356	1	Label, Reconnection Diagram Spec A Begin Spec B
	186-6308	1	Manual		98-7356	1	Manual/Remote Control
	186-6309	1	Remote		98-7356-01	1	Detector Control
	98-5347	4	Label, Danger (Hazardous Voltage)		98-7548	1	Label, Switch
	98-6139-08	2	Label, Logo		98-2304	1	Label, Warning (Voltage)
	98-6304	1	Label, Loose Leads Label, On/Off/Start Switch		98-4732	1	Label, Warning (Automatic Start)
	186-6309	1	Remote		98-4798-01	21	Label, Warning (Rotating Parts)
	98-7554	1	Label, Phase Selection		98-5759	1	Label, Warning (Backfeed Utility)
					098-5822-01	1	Label, Warning (Skid Lift)
					98-5822-01	1	GNAB
					98-5822-01	2	GNAC
					98-6074-02	1	Label, Warning (Operation, Maintenance, Service Risk) Made In England
					98-5387	2	Label, Voltage Disconnect
					098-7642-01	1	Label, Home Standby – Model ID – GNAC

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